LBT-A37CDM/D259CD/D309CD/D359CD

SERVICE MANUAL

Canadian Model

AEP Model
LBT-D259CD/D309CD/D359CD

UK Model LBT-D259CD/D359CD

E Model Australian Model PX Model

These systems are composed of following models. As for the service manual, it is issued for each component model, then, please refer to it.

COMPONENT MODEL NAME FOR THESE SYSTEM

	A37CDM		D259CD		D309CD		D359CD			
	E	AUS	PX	AEP	UK	CND	AEP	G/EE/CIS	AEP	UK
Compact disc deck	HTC-D359		HTC-D259		HTC-D309		HTC-D359			
Stereo FM•AM receiver	5	STR-A3	7	STR-D259		STR-D309		STR-	D359	
Turntable				PS-LX52P — PS-LX52P (Except for E			pt for EE	, CIS)		
Speaker system		S	S-D2	70	-	SS-D170	_			

 Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items. **PARTS LIST**

EE: East European model
CND: Canadian model
G: German model
AUS: Australian model

Parts No.	Description	Remarks
1-466-982-1 1-501-374-1 1-501-536-1	1 COMMANDER, STANDARD (RM-S271) (D259CD 1 COMMANDER, STANDARD (RM-S309) (except 1 ANTENNA, LOOP 1 ANTENNA (AEP, G, EE, CIS) 1 CORD (SPEAKER) (A37CDM)) D259CD)
3-707-584-0 3-707-584-2 3-756-332-1	1 CORD, CONNECTION 13P 1 COVER, BATTERY (FOR RM-S271) 1 COVER, BATTERY (FOR RM-S309) 1 MANUAL, INSTRUCTION (D309CD:AEP) (English, French, Spanish, 1 MANUAL, INSTRUCTION (D309CD:AEP, G) (German, Dutch, Swed:	ish, Italian) *
3-756-333-1		ish) *
3-756-333-3 3-756-333-4 3-756-333-5	1 MANUAL, INSTRUCTION (D259CD:AEP) (English, French, Spanish,	*

Remarks	Parts No.	<u>Description</u>	Remarks
RD (RM-S271) (D259CD) RD (RM-S309) (except D259CD)		MANUAL, INSTRUCTION (D359CD:UK) (Engl	,
CIS) 37CDM)	3-756-334-51	(English, French, Spanish MANUAL, INSTRUCTION (D359CD:AEP) (German, Dutch, Swed	- ,
.3P	3-756-334-71	MANUAL, INSTRUCTION (A37CDM)	,
DR RM-S271) DR RM-S309)	* 4-956-900-01	(English, French, Span CUSHION (UPPER) (D309CD)	iisn, Chinese)
ON (D309CD:AEP)	* 4-956-901-01	CUSHION (MIDDLE) (D309CD)	
glish, French, Spanish, Portuguese)		CUSHION (LOWER) (D309CD)	
ON (D309CD: AEP, G)		INDIVIDUAL, CARTON (D309CD:AEP, G)	
(German, Dutch, Swedish, Italian)		INDIVIDUAL, CARTON (D259CD:UK)	
N (D309CD:EE, CIS)	* 4-956-909-01	INDIVIDUAL, CARTON (D359CD:UK)	
English, German, Polish, Russian)	* 4-957-526-01	INDIVIDUAL, CARTON (D259CD:AEP)	
N (D259CD:UK) (English)	* 4-957-538-01	INDIVIDUAL, CARTON (CND)	
N (CND) (English, French)	* 4-957-634-01	INDIVIDUAL, CARTON (D359CD:AEP)	
N (D259CD:AEP)	* 4-957-635-01	INDIVIDUAL, CARTON (A37CDM: AUS, PX)	
lish, French, Spanish, Portuguese) N (D259CD:AEP)	* 4-957-636-01	INDIVIDUAL, CARTON (A37CDM:E)	
(German, Dutch, Swedish, Italian)	* 4-958-549-01	CUSHION (D259CD, D359CD, A37CDM)	

* 4-960-227-01 INDIVIDUAL, CARTON (D309CD:EE, CIS)

COMPACT HI-FI STEREO SYSTEM SONY

English 93G09072-1D Printed in Japan © 1993.7

HTC-D209/D309

SERVICE MANUAL



AEP Model UK Model E Model Australian Model

HTC-D209 is the compact disc deck in LBT-A27CD / A27CDK / D209CD. HTC-D309 is the compact disc deck in LBT-A37CD / A37CDK / D309CD.

Photo: HTC-D209

SPECIFICATIONS

Cassette deck

Recording system Frequency response 4-track 2-channel stereo

DOLBY NR OFF

With Type II cassette (Sony UX-S) 40 Hz to 14 kHz (±3 dB) With Type I cassette (Sony HF-S) 40 Hz to 13 kHz (±3 dB)

Wow and flutter

W.PEAK $\pm 0.2\%$ (DIN)

Compact disc player

Laser

Laser output

Semiconducotr laser ($\lambda = 780 \text{ nm}$)

Max, 44.6 μ W*

 This output is the value measured at a distance of about 200 mm from the objective lens surface on the Optical

Pick-up Block.

Frequency response Signal-to-noise ratio Dynamic range

2 Hz to 20 kHz \pm 0.5 dB More than 93 dB More than 90 dB

Harmonic distortion Channel separation Less than 0.008% (1 kHz) More than 90 dB (1 kHz)

Mass

Approx. 5.1 kg

Dimensions

Approx. 355 \times 225 \times 305 mm (w/h/d, including projections)

CD	Model Name Using Similar N	HCD-D109		
Section	Base Unit Name		BU-5BD1	
DECK	Model Name Using Similar M	HCD-H170/H170K /H700		
Section	Tape Transport Mechanism	DECK A	TCM-190RA12CL	
	Туре	DECK B	TCM-190RB22CL	

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY" and the double-D symbol \(\bigcirc \) are trademarks of Dolby Laboratories Licensing Corporation.



This appliance is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT MARKING is located on the rear exterior.

CLASS 1 LASER PRODUCT LUOKAN 1 LASERLAITE KLASS 1 LASERAPPARAT

Laser component in this product is capable of emitting radiation exceeding the limit for Class 1.

The following caution label is located inside the unit.

CAUTION	; INVISIBLE LASER RADIATION WHEN OPEN AVOID EXPOSURE TO BEAM
ADVARSEL	: USYNLIG LASERSTRÅLING VED ABNING NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION UNDGÅ UDS ÆTTELSE FOR STRÅLING
VARO!	: AVATTAESSA JA SUOJALUKITUS OHITETTAESSA DLET ALTTINA LASERSATEILYLLE
VARNING	: LASERSTRALING NAP DENNA DEL AR OPPNAD OCH SPARREN AR URXOPPLAD
ADVARSEL	: USYNLIG LASERSTRALING NÅR DEKSEL ÅPNES UNNGÅ EKSPONERING FOR STRÅLEN

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.

During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.

The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe more than 30 cm away from the objective lens.

SAFETY-RELATED COMPONENT WARNING!!

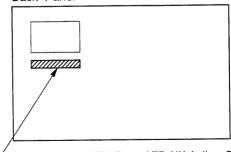
COMPONENTS IDENTIFIED BY MARK A OR DOTTED LINE WITH MARK ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

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MODEL IDENTIFICATION

Back Panel



. 4-955-819-01: HTC-D209 AEP, UK, Italian, Germany Mdels. 4-955-819-11: HTC-D209 E, East European, Malaysia,

Singapore Models.

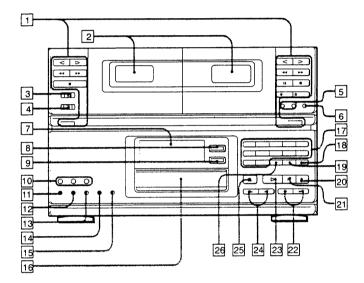
4-955-819-21: HTC-D209 Saudi Arabia, Australian Models. 4-955-819-31: HTC-D309 AEP, UK, Italian, Germany Models.

4-955-819-41: HTC-D309 E, East European, Malaysia, Singapore, CIS Models.

4-955-819-51: HTC-D309 Saudi Arabia, Australian Models.

This section is extracted from instruction manual.

SECTION 1 **GENERAL**



Location of Controls

Cassette Deck

- 1 Tape operation buttons
 - Leftward fast winding/AMS*
 - ►► Rightward fast winding/AMS*
 - Forward play
 - Reverse play
 - Stop
 - **≜** EJECT
 - II PAUSE (deck B only)
 - O REC MUTE (record muting) (deck B only)
 - REC (record) (deck B only)
- 2 Cassette holders
- 3 DOLBY NR (noise reduction) switch (32,
- 4 DIRECTION MODE selector (28, 32, 38,
- 5 DUBBING SPEED (HIGH/NORMAL) button (38, 40)
- 6 CD SYNCHRO button (80, 84)

Compact Disc Player

- [7] Display window[8] EDIT/TIME FADE button (86, 88, 94)
- 9 TIME SET button (86, 94)
- 10 PLAY MODE buttons PROGRAM button (54) SHUFFLE button (50, 52) CONTINUE button (52)
- 111 MUSIC SCAN button (58)
- 12 A.SPACE/A.CUE (auto space/auto cue) button (48, 96)
- 13 TIME button (44)
- REPEAT button (60)
- 15 FADER button (92)
- 16 Disc tray
- Numeric buttons (46, 52)
- 18 CLEAR (program clear) button (56)
- 19 CHECK (program check) button (56)
- 20 (stop) button (42)
- [21] **!!** (pause) button (42)
- [22] ◀◀/▶▶ (manual search) buttons (46)
- 23 ► (play) button (42)
- ② Idd/▶►I (AMS*) buttons (46) ② OPEN/CLOSE button (42)
- 26 > 12 (over 12) button (46)
- * AMS is the abbreviation of Automatic Music Sensor.

SECTION 2 ADJUSTMENTS

2-1. MECHANICAL ADJUSTMENTS

Precautions:

1. Clean the following parts with a denatured-alcoholmoistened swab;

record/playback/erase head

pinch roller

rubber belts

capstan

idler

Demagnetize the record/playback head with a head demagnetizer.

(Head demagnetizer do not approach for the erase head.)

- 3. Do not use a magnetized screwdriver for the adjustments.
- 4. After the adjustments, apply suitable locking compound to the parts adjusted.
- 5. The adjustments should be performed in the rated power supply voltage unless otherwise noted.

Torque Measurement

Torque Torque meter		Meter reading
FWD	CQ-102C	35 to 60g · cm (0.49 to 0.83 oz · inch)
FWD Back tension	CQ-102C	2 to 6g·cm (0.03 to 0.08 oz·inch)
REV	CQ-102RC	35 to 60g · cm (0.49 to 0.83 oz · inch)
REV Back tension	CQ-102RC	2 to 6g·cm (0.03 to 0.08 oz·inch)
FF, REW	CQ-201B	70 to 110g · cm (0.98 to 1.52 oz · inch)

2-2. ELECTRICAL ADJUSTMENTS

0 dB=0.775 V (AF)

Precautions:

CASSETTE DECK SECTION

- Demagnetize the record / playback head with a head demagnetizer. (Do not bring the head demagnetizer close to the erase head.)
- 2. Do not use a magnetized screwdriver for the adjustments.
- After the adjustments, apply suitable locking compound to the parts adjusted.
- I. The adjustments should be performed with the rated power supply voltage unless otherwise noted.
- The adjustments should be performed in the order given in this service manual. (As a general rule, playback circuit adjustment should be completed before performing recording circuit adjustment.)
- The adjustments should be performed for both L-CH and R-CH,
- Switches and controls should be set as follows unless otherwise specified.

DOLBY NR switch: OFF
TAPE: TYPE I

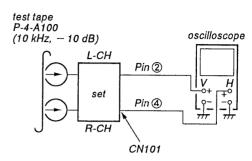
Type	Signal	Used for
P-4 A100	6.3kHz, -10dB	Azimath Adjustment
P-4 L300	315Hz, 0dB	PB Level Adjustment
WS 48B	3kHz, ÓdB	Tape Speed Adjustment

Record/Playback Head Azimuth Adjustment

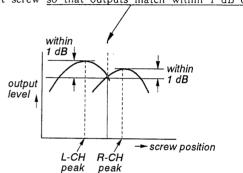
Note: Perform this adjustments for both decks.

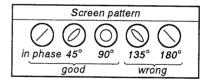
Procedure:

1. Mode: FWD playback



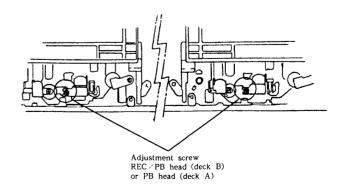
2. Turn the adjustment screw and check output peaks. If the peaks do not match for L-CH and R-CH, turn the adjustment screw so that outputs match within 1 dB of peak.





3. After the adjustments, apply suitable locking compound to the parts adjusted.

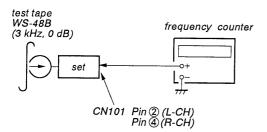
Adjustment Location:



Tape Speed Adjustment DECK A

DECK A DECK B

Mode: playback



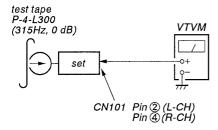
- High speed adjustment (Must be first Adjustment B deck)
 - 1. Push HIGH speed button.
 - Adjust RV71 so that the frequency counter reads 6,000±30Hz,
- · NORMAL speed adjustment
 - 1. Push NORMAL speed button.
 - 2. Adjust RV72 so that the frequency counter reads $3,000\pm15$ Hz.

(See right for Adjusting Parts Location)

Frequency difference between deck A and deck B the beginning of the tape should be within 1%.

Playback Level Adjustment DECK A Procedure:





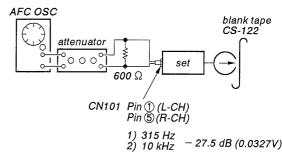
Mode: FWD playback
DECK-A side RV11 (L-CH), RV21 (R-CH)
DECK-B side RV11 (L-CH), RV21 (R-CH)
so that the limits below are satisfied.

Adjustable limits:

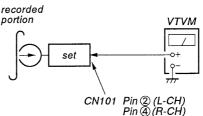
CN101 level : -7.7 ± 0.5 dB (0.301 -0.338) level difference between the channels: within 1.0dB (See right for Adjusting Parts Location)

Record BIAS Current Adjustment DECK B Procedure:

1. Mode: record



2. Mode: Playback



Playback the signal recorder in step 1. Confirm that the 10kHz playback output is $0\pm0.5dB$ relative to the 315Hz output. If necessary, adjust RV12 (L-CH), RV22 (R-CH) and repeat the steps given above.

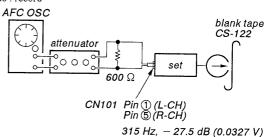
(See right for Adjusting Parts Location)

Record Level Adjustment DECK B Setting:

TAPE: TYPE I

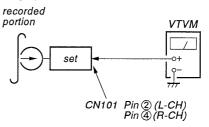
Procedure:

1. Mode: record



010112, 21.5 db (t

2. Mode: playback

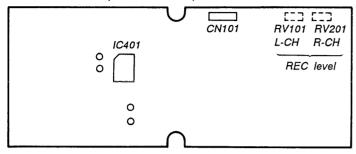


3. Playback the signal recorded in step 1. Confirm that the signal level is within the adjustment limits below. If necessary, adjust RV101 (L-CH), RV201 (R-CH) and repeat the step 1-3.

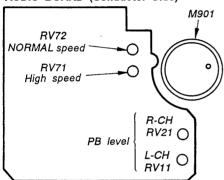
Adjustable limits: $-27.5 \pm 0.5 \text{ dB}$ (0.0309 - 0.0346) (See right for Adjusting Parts Location)

• Adjusting Parts Location

TC MAIN BOARD (Conductor Side)



AUDIO BOARD (Conductor Side)

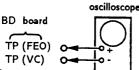


CD SECTION

Note:

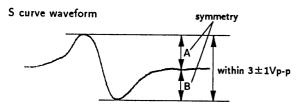
- CD Block basically constructed to operate without adjustment. Therefore, check each item in order given.
- 2. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
- 3. Use the oscilloscope with more than $10M\Omega$ impedance.
- 4. Clean an object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.

S Curve Check



Procedure:

- Connect oscilloscope to test point TP (FEO) on BD board.
- 2. Connect between test point TP (FES) and TP (VC) by lead wire.
- Turned Power switch on and actuate the focus serch. (actuate the focus serch when disc table is moving in and out.)
- Check the oscilloscope waveform (S curve) is symmetrical between A and B. And confirm peak to peak level within 3±1Vp-p.

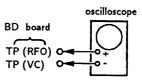


5. After check, remove the lead wire connected in step 2.

Note: • Try to mesure several times to make sure that the ratio of A: B or B: A is more than 10:7.

 Take sweep time as long as possible and light up the brightness to obtain best waveform.

RF Level Check

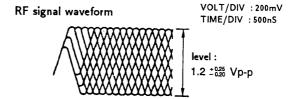


Procedure:

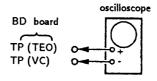
- Connect oscilloscope to test point TP (RFO) on BD board.
- 2. Turn Power switch on.
- 3. Put disc (YEDS-18) in and playback.
- 4. Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.

Note:

Clear RF signal waveform means that the shape "\$\langle\$" can be clearly distinguished at the center of the waveform.



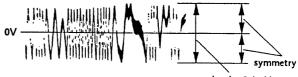
E-F Balance Check



Procedure:

- Connect test point TP (ADJ) to ground and TP (TES) to TP (VC) with lead wire.
- Connect oscilloscope to test point TP (TEO) on BD board.
- 3. Turn Power switch on.
- 4. Put disc (YEDS-18) in and playback.
- 5. Confirm that the osilloscope waveform is symmetrical on the top and bottom in relation to 0V, and check this level.

Traverse oscilloscope

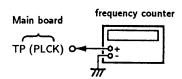


6. Remove the lead wire connected in step 1.

RF PLL Free-run Frequency Check

Procedure:

1. Connect frequency counter to test point (PLCK) with lead wire.



- 2. Turn Power switch on.
- 3. Confirm that reading on frequency counter is 4. 3218MHz.

Focus/Tracking Gain

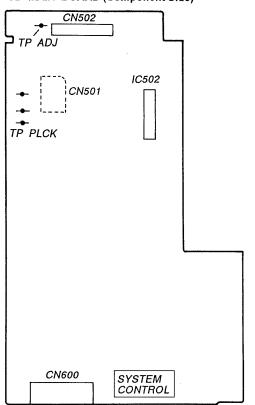
This gain has a margin, so even if it is slightly off. There is no problem.

Therefore, do not perform, this adjustment.

Please note that it should be fixed to mechanical center position when you moved and do not know original position.

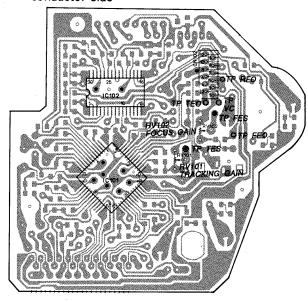
Adjustment Location;

CD MAIN BOARD (Component Side)



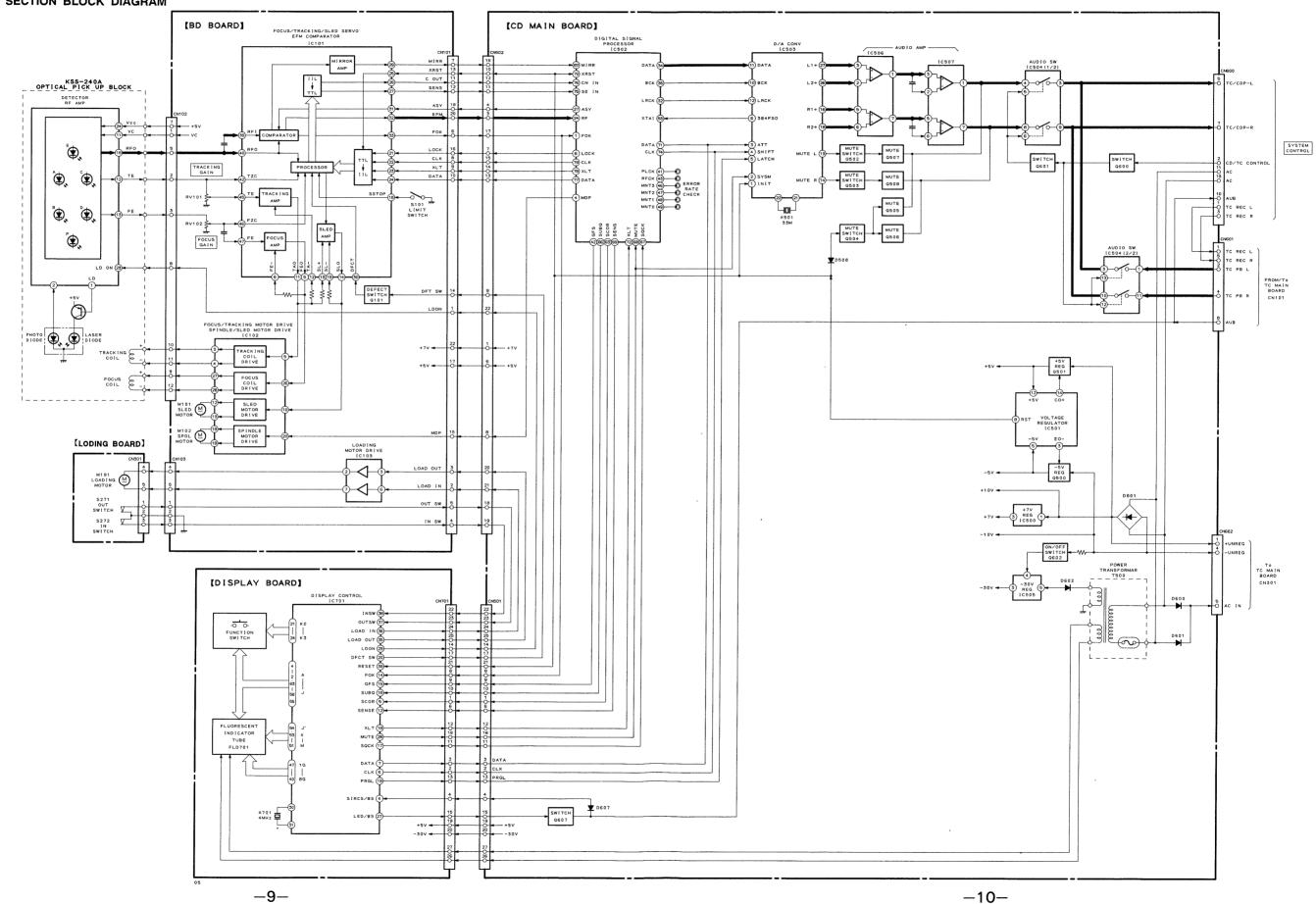
Adjustment Locations: [BD board]

- conductor side -

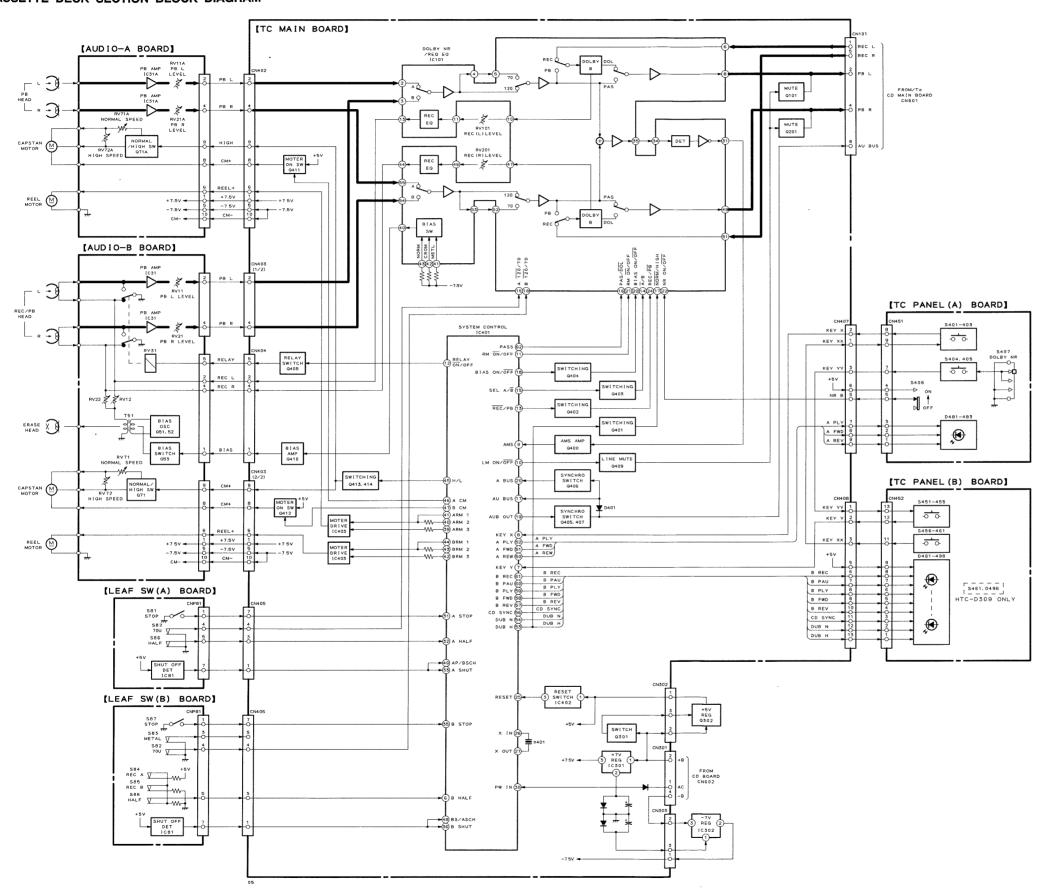


SECTION 3 DIAGRAMS

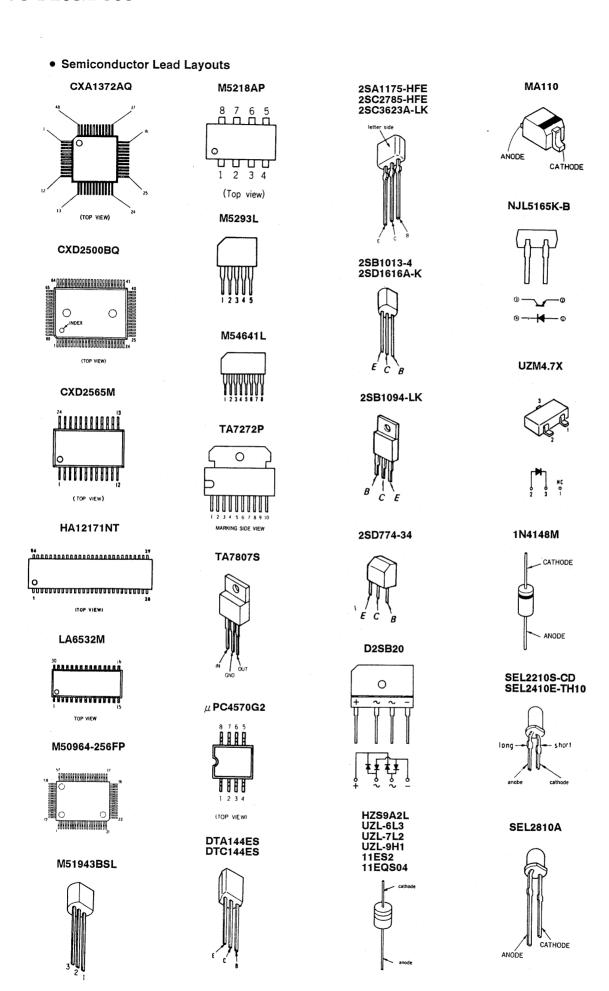
3-1. CD SECTION BLOCK DIAGRAM



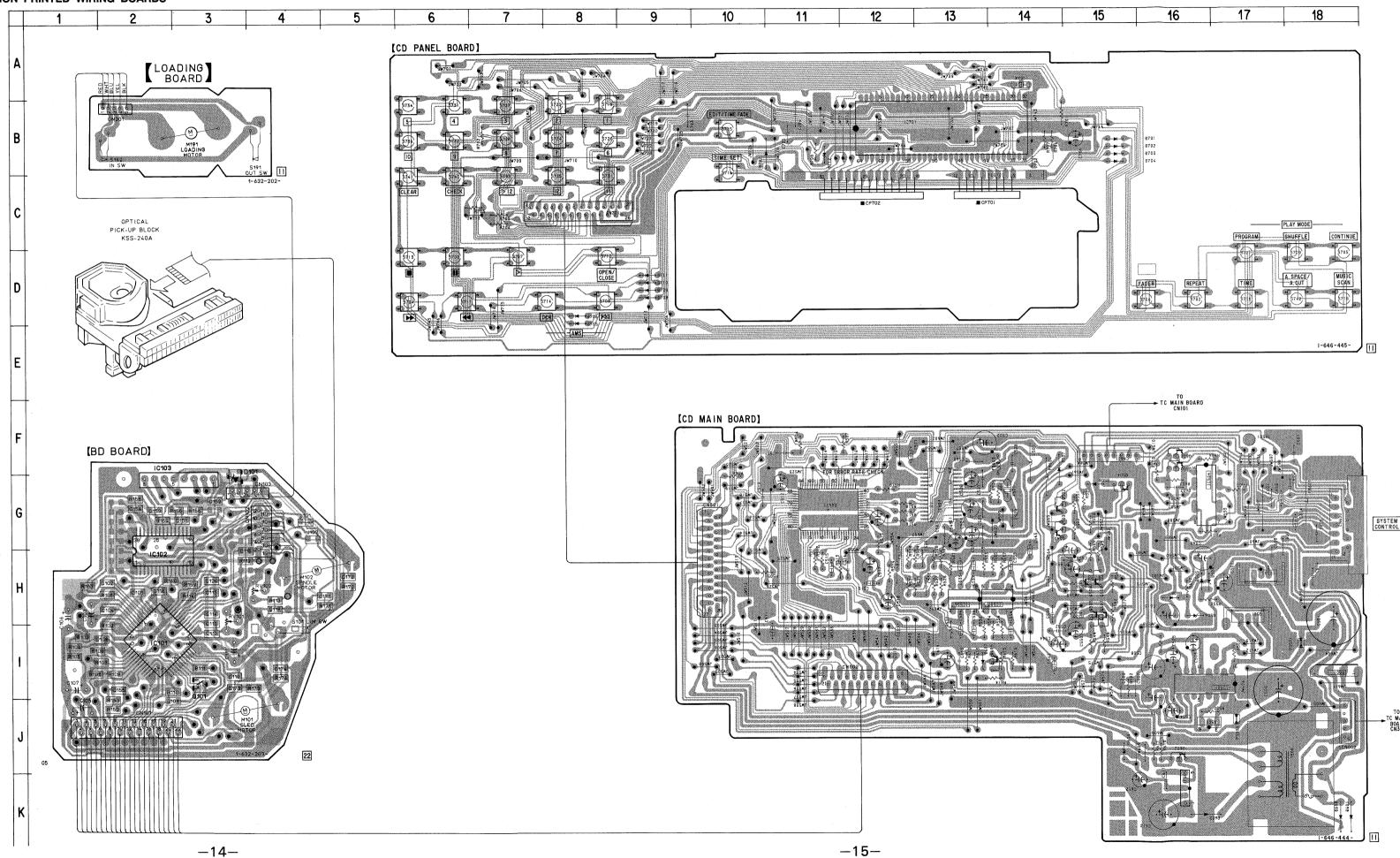
3-2. CASSETTE DECK SECTION BLOCK DIAGRAM



HTC-D209/D309

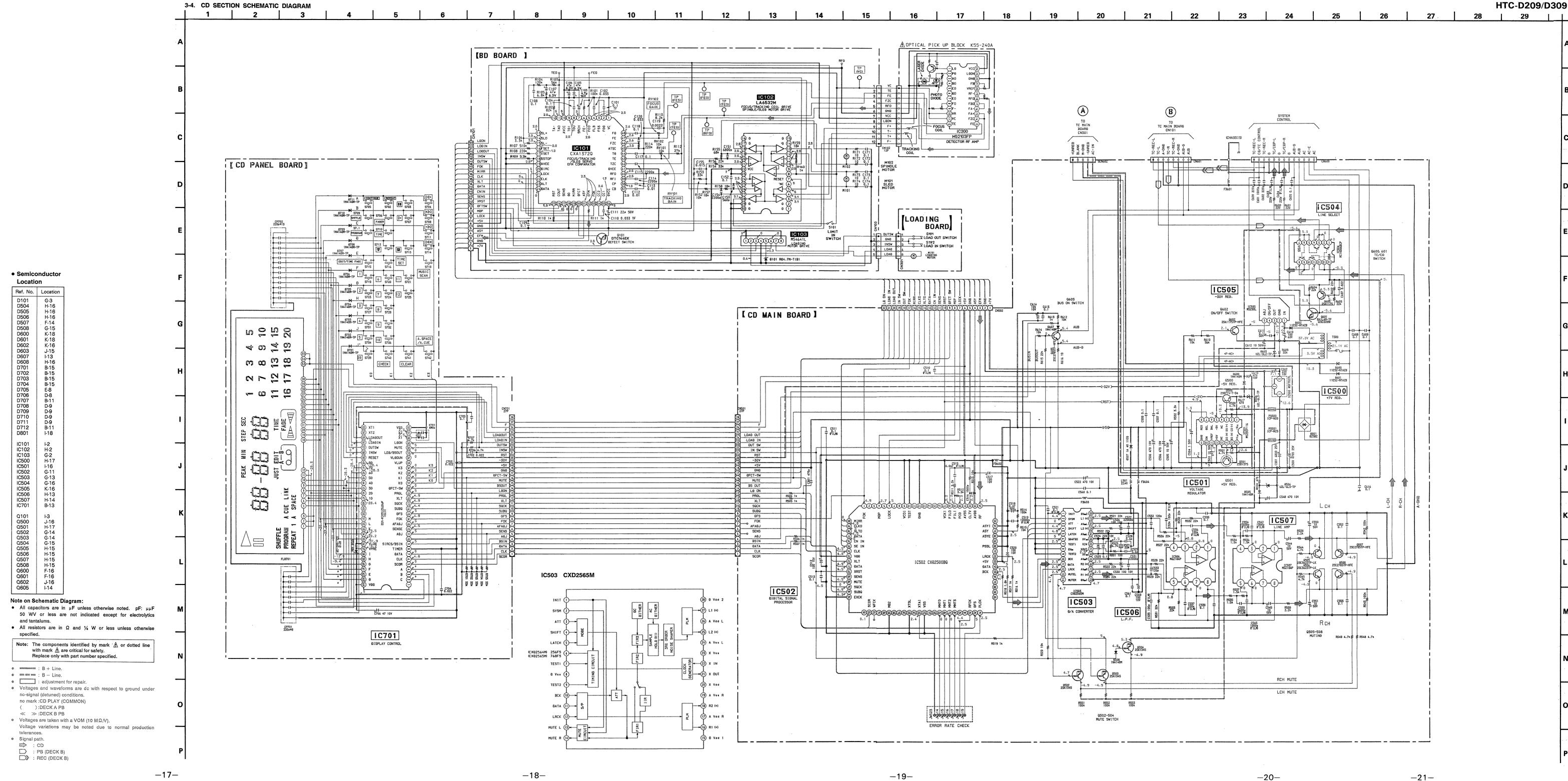


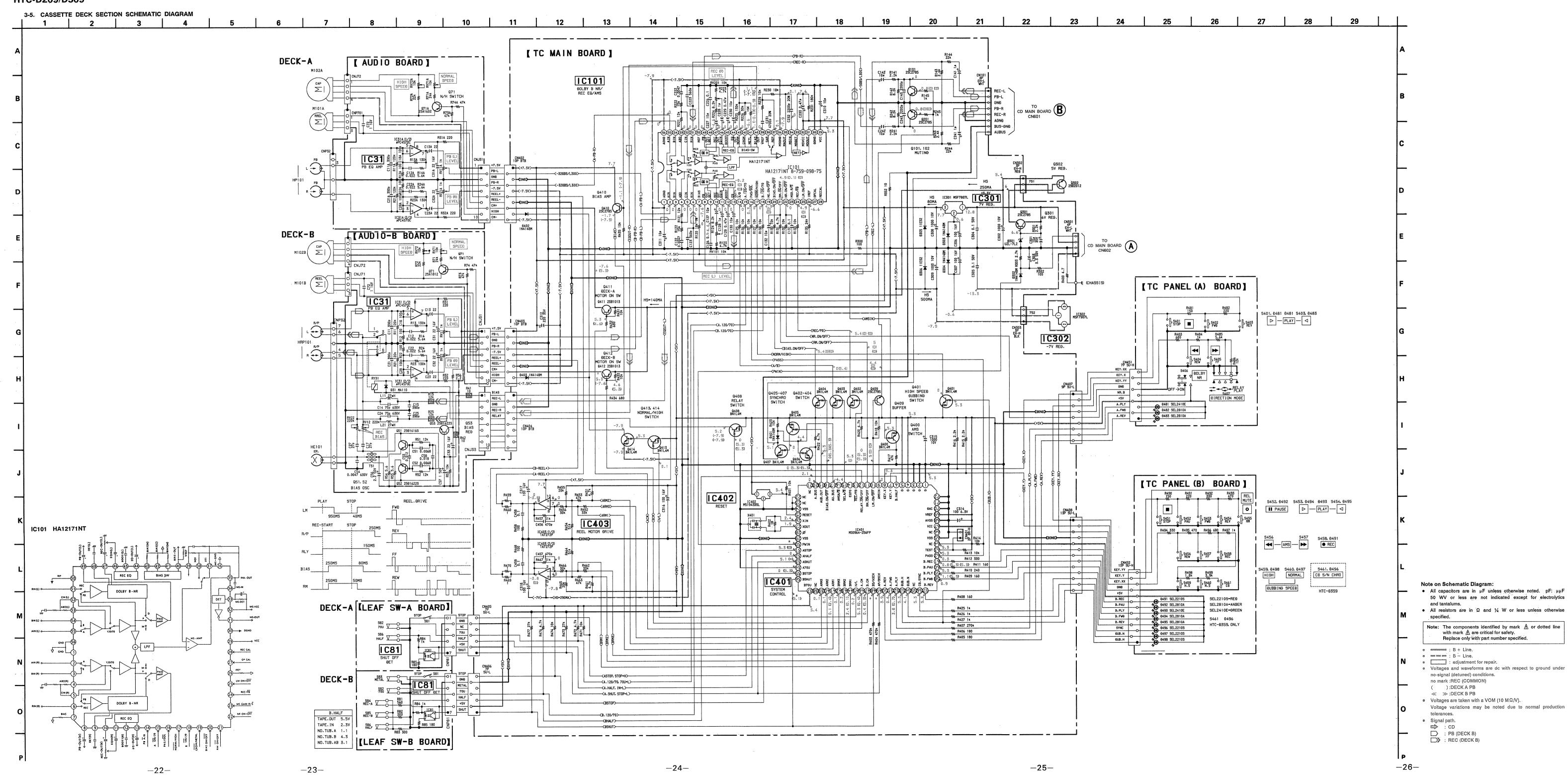
3-3. CD SECTION PRINTED WIRING BOARDS



Note on Printed Wiring Board:

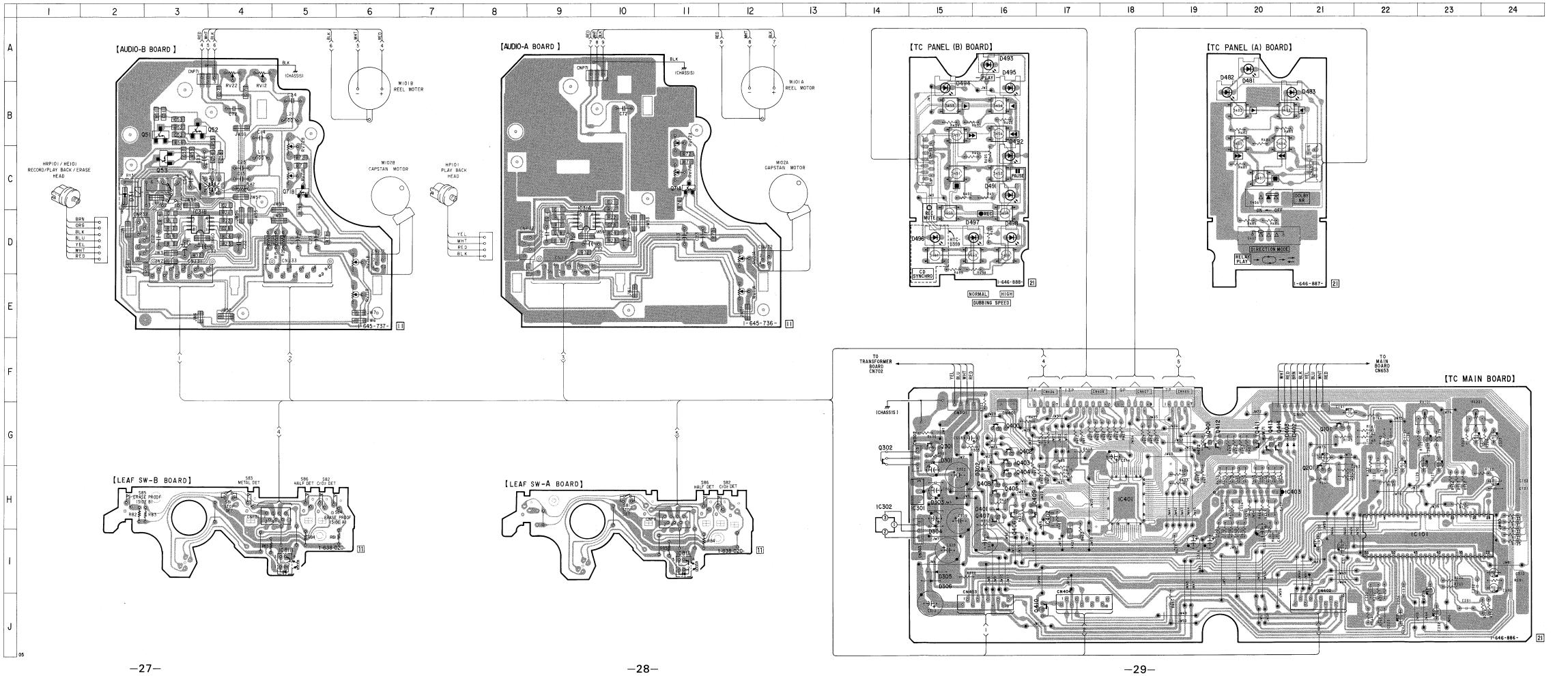
- o : parts extracted from the component side.
- Pattern from the side which enables seeing.
- Pattern of the rear side.





3-6. CASSETTE DECK SECTION PRINTED WIRING BOARDS

• See page 13 for Semiconductor Lead Layouts.



Semiconductor Location

Locatio)[]
Ref. No.	Location
D31 D301 D302 D303 D304 D305 D306 D401 D402 D403 D481 D482 D483 D491 D492 D493 D494 D495 D496 D497 D498	C-2 G-15 H-16 H-15 I-15 I-15 I-16 G-21 G-20 A-20 B-21 C-16 C-16 A-16 B-15 B-16 D-15
IC31A IC31B IC101 IC301 IC302 IC401 IC402 IC403	D-9 D-3 I-22 H-15 H-14 H-18 H-17
Q51 Q52 Q53 Q71A Q71B Q101 Q201 Q301 Q302 Q400 Q401 Q402 Q403 Q404 Q405 Q405 Q406 Q407 Q408 Q409 Q410 Q411 Q411 Q412 Q413 Q414	B-3 B-3 C-11 C-5 21 C-5 21 C-15 G-14 G-16 G-16 G-16 H-16 H-16 H-16 H-17 G-20 G-20

Note on Printed Wiring Board:

• o----: parts extracted from the component side.

SECTION 4 EXPLODED VIEWS

NOTE:

- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts KNOB, BALANCE (WHITE) . . . (RED)

1 Parts Color Cabinet's Color

Abbreviations

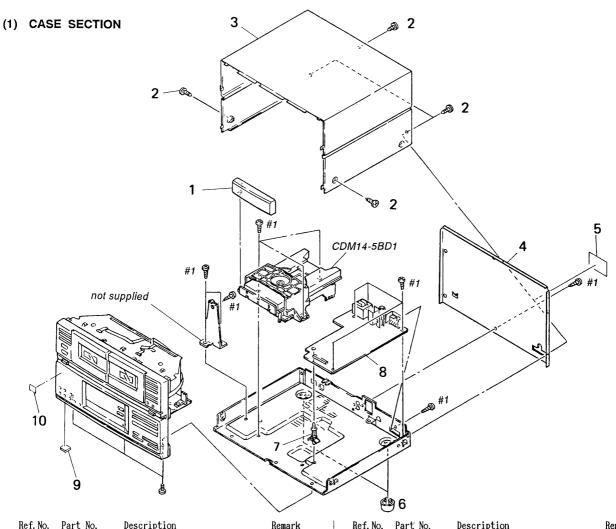
Australian Model IT: Italian Model MY: Malaysia Model East European Model Germany Model AUS: Australian Model EA: EE: G:

are seldom required for routine service. Some delay should be anticipated when ordering these items.

• Items marked "*" are not stocked since they

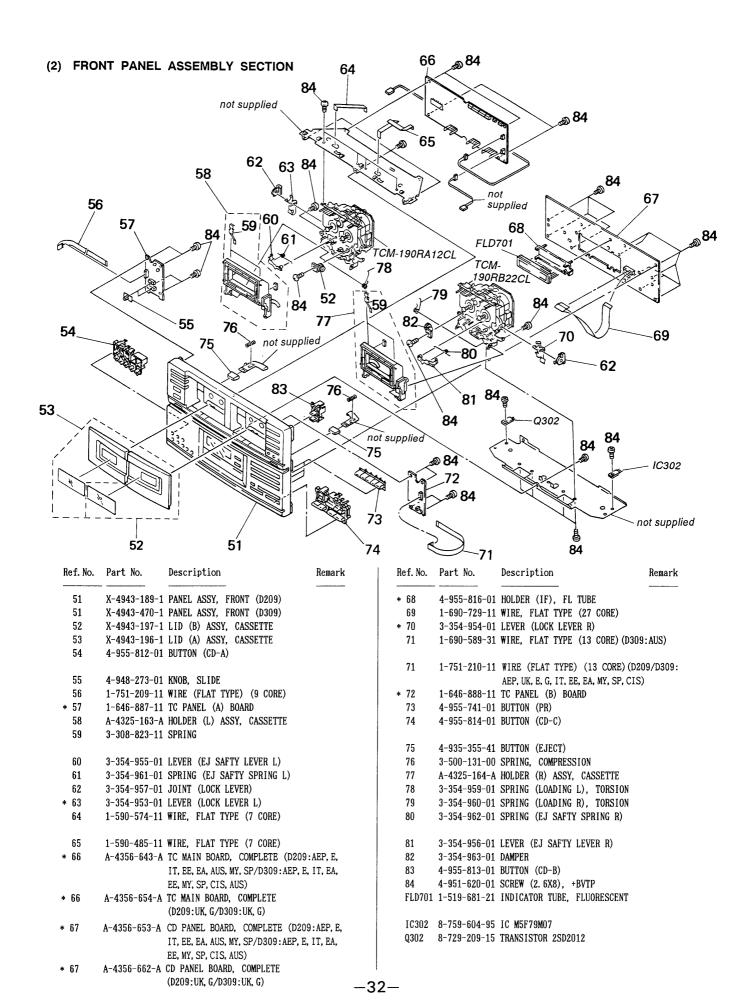
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list is given in the last of this parts list.

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

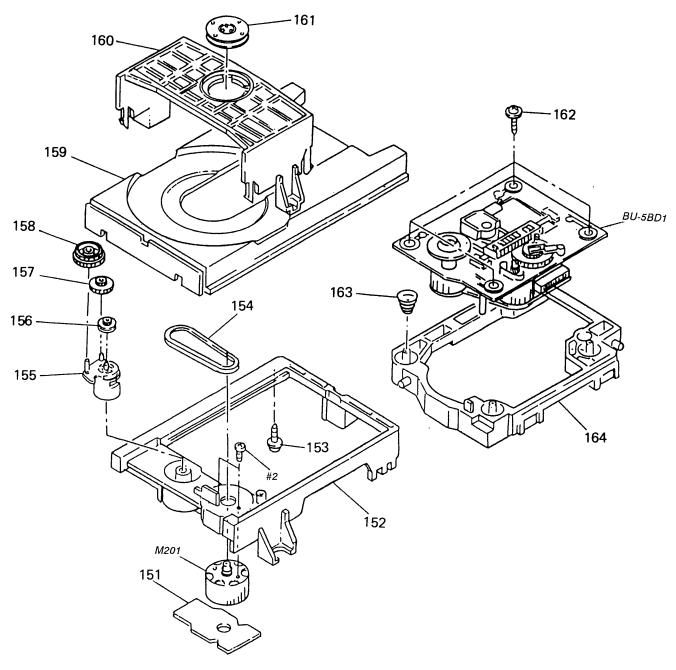


Ret. No.	Part No.	Description	Kemark
1	4-955-815-01	PANEL, LOAD	ING
2	3-363-099-01	SCREW (CASE	3 TP2) (D209:AUS/D309:UK, AUS)
2	3-704-366-01	SCREW (CASE)	(M3X8) (D209: AEP, UK, E, G, IT,
		EE, EA, MY, SP	/D309:AEP, E, IT, G, EA, EE, MY,
		SP, CIS)	
* 3	4-955-759-31	. ,	
* 4	4-955-819-01	PANEL, BACK	(D209: AEP, UK, G, IT)
* 4	4-955-819-11	PANEL, BACK	(D209: E, EE, MY, SP)
* 4	4-955-819-21	PANEL, BACK	(D209:EA, AUS)
* 4	4-955-819-31	PANEL, BACK	(D309: AEP, UK, G, IT)
* 4	4-955-819-41	PANEL, BACK	(D309:E, EE, MY, SP, CIS)
* 4			(D309:EA, AUS)

Ket. No.	Part No.	Description Remark
* 5	4-941-548-01	LABEL, CLASS 1
6	X-4941-228-1	FOOT ASSY
7	4-943-687-01	HOLDER, PC BOARD
* 8	A-4356-652-A	CD MAIN BOARD, COMPLETE (D209:AEP, E, IT, EE, EA, AUS, MY, SP/D309:AEP, E, IT, EA, EE, MY, SP, CIS, AUS)
* 8	A-4356-661-A	CD MAIN BOARD, COMPLETE (D209:UK, G/D309:UK, G)
9	4-948-236-01	CUSHION (107)
* 10	3-703-713-41	STICKER, SONY SYMBOL (10) (D209:AUS/D309:UK, AUS)

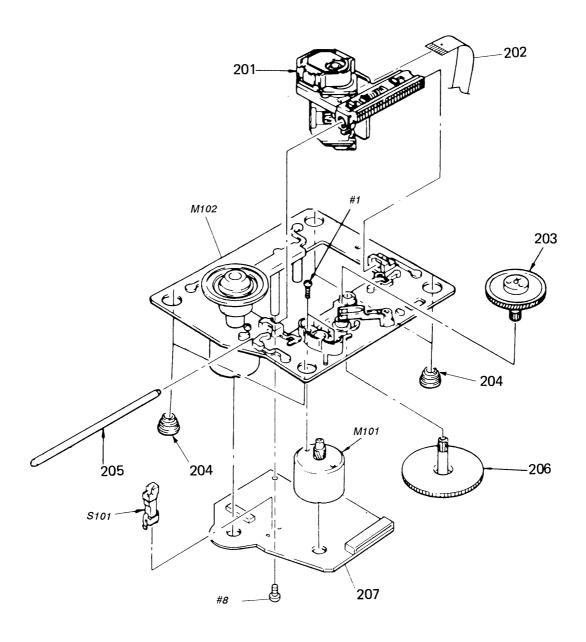


(3) CD MECHANISM SECTION (CDM14-5BD1)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
* 151 152 * 153 154	4-933-111-01 4-917-583-21 4-927-649-01	BRACKET, YOKE BELT		160 * 161 162		HOLDER (MG) MAGNET SCREW (+PTPWH M2. 6X6)	
155	4-933-109-01	CAM		163	4-917-541-01	SPRING (B)	
156	4-927-651-01	PULLEY (S)		164	4-933-129-01	HOLDER (BU)	
157 158	4-927-628-01 4-933-107-01			M201	A-4604-363-A	MOTOR (L) ASSY	

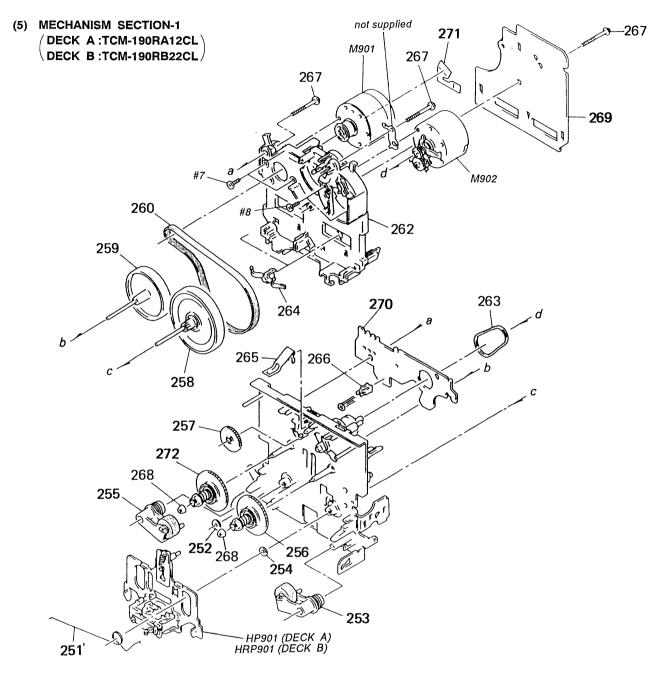
(4) OPTICAL PICK-UP BLOCK ASSEMBLY (BU-5BD1)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
<u> 1</u> 201	8-848-144-11	DEVICE, OPTICAL KSS-240A		206	4-917-564-01	GEAR (P), FLATNESS	
202	1-575-001-11	WIRE, FLAT TYPE (12 CORE)		* 207	A-4617-371-A	BD BOARD, COMPLETE	
203	4-917-567-01	GEAR (M)		S101	1-572-085-11	SWITCH, LEAF (LIMIT IN)	
204	4-933-126-01	INSULATOR (A)	į	M101	X-4917-504-1	MOTOR ASSY (SLED)	
205	4-917-565-01	SHAFT, SLED		M102	X-4917-523-3	BASE (OUTSERT) ASSY (SPINDLE N	IOTOR)

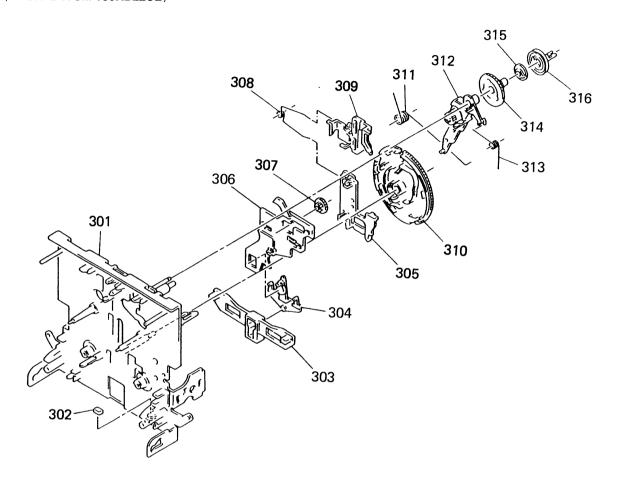
Note: The components identified by mark \triangle or dotted line with mark \triangle are critical for safety.

Replace only with part number specified.



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
251	3-359-455-01	SPRING, TORSION		265	3-359-430-01	SPRING (CASSETTE RETAINER), LEAF	
252	3-356-714-01	WASHER		266	3-343-419-01	HOLDER (S SENSOR A)	
253	X-3359-408-1	LEVER (PINCH LEVER FWD) ASSY		267	3-359-414-01	SCREW (+PTPWH 2X23)	
254	3-356-713-01	WASHER	1	268	3-362-308-01	CAP (REEL)	
255	X-3359-409-1	LEVER (PINCH LEVER REV) ASSY					
				* 269	A-2006-609-A	AUDIO BOARD, COMPLETE (DECK A)	
256	X-3359-404-1	TABLE ASSY, REEL		* 269	A-2006-610-A	AUDIO BOARD, COMPLETE (DECK B)	
257	3-359-424-01	GEAR (REV GEAR)		* 270	1-638-020-11	LEAF SW BOARD	
258	X-3359-406-1	FLYWHEEL (FWD) ASSY		271	1-638-983-11	PC BOARD, MOTOR FLEXIBLE	
259	X-3359-410-1	FLYWHEEL (REV) ASSY		272	X-3362-078-1	TABLE ASSY (B), REEL	
260	3-359-417-01	BELT (FLAT), CAPSTAN					
				HP901	A-2003-838-A	DECK ASSY, HEAD (DECK A)	
* 262	3-359-436-01	BASE (THRUST RETAINER), FITTING		HRPE9	01A-2004-190-A	DECK ASSY, HEAD (DECK B)	
263	3-359-466-01	BELT (FR), SQUARE		M901	X-3359-417-1	MOTOR ASSY (CAPSTAN)	
264	3-575-321-00	RETAINER, THRUST, CAPSTAN		M902	X-3363-501-1	MOTOR ASSY (REEL)	

(6) MECHANISM SECTION-2 (DECK A:TCM-190RA12CL) DECK B:TCM-190RB22CL)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
301	X-3359-415-1	CHASSIS ASSY, MECHANICAL		309	3-359-429-01	SLIDER (BRAKE PLATE)	
302	3-359-469-01	SPACER		310	3-359-420-01	GEAR (CAM GEAR)	
* 303	3-359-425-01	SLIDER (REVERSE SLIDER)		311	3-359-456-01	SPRING (TRIGGER SPRING), TORSION	
304	3-359-426-01	LEVER (REVERSE LEVER)		312	X-3359-405-1	LEVER (FR ARM) ASSY	
* 305	3-359-427-01	SLIDER (LEVERSE SLIDER)		313	3-359-453-01	SPRING (FR ARM), TORSION	
* 306	3-359-415-01	SLIDER (TRIGGER SLIDER)		314	3-359-419-01	GEAR (FR GEAR)	
307	3-359-448-01	GEAR (TRIGGER)		315	3-359-421-01	CLUTCH (REEL DISK)	
308	3-359-454-01	SPRING, TORSION		316	3-359-418-01	PULLEY (FR PULLEY)	

SECTION 5 ELECTRICAL PARTS LIST

AUDIO-A

AUDIO-B

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS

All resistors are in ohms. METAL: Metal-film resistor.

METAL OXIDE: Metal oxide-film resistor. F:nonflammable

• Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

SEMICONDUCTORS

In each case, $u:\mu$, for example: uA ..: μA.. uPA..: μPA.. $uPB..: \mu PB.. \quad uPC..: \mu PC.. \quad uPD..: \mu PD..$

CAPACITORS uF: μF COILS

When indicating parts by reference number, please include the board.

> IT: Italian Model MY: Malaysia Model SP: Singapore Model

uH: μH Abbreviations

AUS: Australian Model
EA: Saudi Arabia Model
EE: East European Model
G: Germany Model

The components identified by mark A or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque A sont critiques pour la sécurité.

Ne les remplacer que par une pièce portant le numéro spécifié.

				G:	Gerr
Ref.	No. Part No.	Description		Re	mark
*	A-2006-623-	A AUDIO-A BOARD			
		< CAPACITOR >			
C1:	1-163-131-0	O CERAMIC CHIP	390PF	5%	50V
C12		O FILM	0. 022uF	5%	50V
C13	3 1-124-234-0	O ELECT	22uF	20%	16V
C18	3 1-163-117-0	O CERAMIC CHIP	100PF	5%	50V
C21	1-163-131-0	O CERAMIC CHIP	390PF	5%	50V
C22	2 1-136-157-00	D FILM	0. 022uF	5%	50V
C23	3 1-124-234-00	D ELECT	22uF	20%	16V
C28	3 1-163-117-00	D CERAMIC CHIP	100PF	5%	50V
C31	. 1-124-234-00	DELECT	22uF	20%	16V
C32	1-124-234-00) ELECT	22uF	20%	16V
C72	1-124-499-11	L ELECT, NONPOLA	AR 1uF	20%	50V
		< JACK >			
	31 1-580-782-11				
* CNJ	72 1-580-411-11	SOCKET, CONNEC	TOR 4P		
		< connector $>$			
* CNP	32 1-580-772-11	PIN, CONNECTOR	(PC BOARD)	4P	
* CNP	71 1-564-719-11	PIN, CONNECTOR	(SMALL TYPE) 3P	
		< IC >			
IC3	1 8-759-106-02	IC uPC4570G2			
		< JUMPER RESIS	TOR >		
JW1	1-216-295-00	METAL CHIP	0 5%	1/10W	
JW5:			0 5%	1/8W	
JW52			0 5%	1/8W	
JW53		METAL CHIP	0 5%	1/8W	
JW54			0 5%	1/8W	

Ref. No.	Part No.	Description			Re	mark
		< TRANSISTOR >			_	
Q71	8-729-216-22	TRANSISTOR 2SA1	162-G			
		< RESISTOR >				
R11	1-216-099-00	METAL CHIP	120K	5%	1/10W	
R12	1-216-025-00		100	5%	1/10W	
R13	1-216-100-00		130K	5%	1/10W	
R14	1-216-067-00		5. 6K	5%	1/10W	
R21	1-216-099-00	METAL CHIP	120K	5%	1/10W	
R22	1-216-025-00		100	5%	1/10W	
R23	1-216-100-00		130K	5%	1/10W	
R24	1-216-067-00		5. 6K	5%	1/10W	
R31	1-216-033-00		220	5%	1/10W	
R32	1-216-033-00	METAL CHIP	220	5%	1/10W	
R71	1-216-082-00		24K	5%	1/10W	
R72	1-216-081-00		22K	5%	1/10W	
R73	1-216-089-00		47K	5%	1/10W	
R74	1-216-089-00	METAL CHIP	47K	5%	1/10W	
		< VARIABLE RESI	STOR >			
RV11	1-238-012-11	RES, ADJ, CARBO	N 1K			
RV21		RES, ADJ, CARBO				
RV71		RES, ADJ, CARBO				
RV72		RES, ADJ, CARBO				
*****	******	******	******	****	*****	****
*	A-2006-624-A	AUDIO-B BOARD, (_		
		< CAPACITOR >				
C11	1-163-131-00	CERAMIC CHIP	390PF		5%	50V
C12	1-136-157-00	FILM	0. 022u	F	5%	50V
C13	1-124-234-00	ELECT	22uF		20%	16V
C14	1-136-273-91	FILM	75PF		5%	630V
C15	1-164-080-11	CERAMIC	390PF		10%	50V

AUDIO-B

	Ref. No.	Part No.	Description			Rema	ark	Ref. No.	Part No.	Description			Remark
1-163-117-00 CERMIC CHIP 100PF 5% 50V JRSS 1-216-289-00 METAL CHIP 0 5% 1/48	C17	1-163-103-00	CERAMIC CHIP	27PF		 5%	 50V	JW56	1-216-296-00	METAL CHIP	0	5%	1/8W
C22						5%	50V	JW57	1-216-296-00	METAL CHIP	0	5%	1/8W
C23		1-163-131-00	CERAMIC CHIP	390PF		5%	50V	J₩58	1-216-296-00	METAL CHIP	0	5%	1/8W
C23	C22	1-136-157-00	FILM	0. 022ul	F	5%	50V	J W 59	1-216-296-00	METAL CHIP	0	5%	1/8W
CSS 1-164-090-11 (ERAMIC CHIP 20PF 5% SOV JWR3 1-216-298-00 METAL CHIP 0 5% 1/3W				22uF		20%	16V	J W 60	1-216-296-00	METAL CHIP	0	5%	1/8W
	C24	1-136-273-91	FILM	75PF		5%	630V	JW61	1-216-296-00	METAL CHIP	0	5%	1/8W
C28	C25	1-164-080-11	CERAMIC	390PF		10%	50V	JW62	1-216-296-00	METAL CHIP	0	5%	1/8W
C31	C27	1-163-103-00	CERAMIC CHIP	27PF		5%	50V	JW63	1-216-296-00	METAL CHIP	0	5%	1/8W
C32	C28	1-163-117-00	CERAMIC CHIP	100PF		5%	50V						
C33	C31	1-124-234-00	ELECT	22uF		20%	16V			< COIT >			
C51	C32	1-124-234-00	ELECT	22uF		20%	16V	L11	1-410-780-11	INDUCTOR 27mH			
C52	C33	1-124-234-00	ELECT			20%		L21	1-410-780-11	INDUCTOR 27mH			
Temporary Temp	C51												
C54						10%				< TRANSISTOR :	>		
C54	C53	1-163-022-00	CERAMIC CHIP	0. 012ul	F	10%	50V	051	8-729-111-29	TRANSISTOR 2S	D1616A-K	•	
C56	C54	1-136-559-11	FILM	0 0047	ıF	5%	630V						
C57						0.0		1					
C58								1					
C72					F	10%							
***CNJ31** 1-580-782-11 CONNECTOR, BOARD TO BOARD** ***CNJ32** 1-580-782-11 CONNECTOR, BOARD TO BOARD** ***CNJ32** 1-580-782-11 CONNECTOR, BOARD TO BOARD** ***CNJ32** 1-580-411-11 SOCKET, CONNECTOR** ***CONNECTOR** **		1-124-499-11	ELECT, NONPOLAR	1uF		20%				< RESISTOR $>$			
* CNJ31 1-580-782-11 CONNECTOR, BOARD TO BOARD ** ***CNJ32 1-580-82-11 CONNECTOR, BOARD TO BOARD ** ***CNJ32 1-580-82-11 CONNECTOR, BOARD TO BOARD ** ***CNJ32 1-580-411-11 SOCKET, CONNECTOR ** ***CNNPT1 1-580-781-11 PIN, CONNECTOR ** ***CNPT2 1-580-781-11 PIN, CONNECTOR ** ***CNPT2 1-580-781-11 PIN, CONNECTOR ** ***CNPT2 1-580-781-11 PIN, CONNECTOR ** ***CNPT3 1-580-781-11 PIN, CONNECTOR ** ***CNPT2 1-580-781-11 PIN, CONNECTOR ** ***CNPT3 1-580-781-11 PIN, CONNECTOR ** ***CNPT4 1-580-781-11 PIN, CONNECTOR ** ***CNPT5 1-580-781-11 PIN, CONNECTOR ** ***CNPT6 1-580-781-11 PIN, CONNECTOR ** ***CNPT8 1-580-781-11 PIN, CONNECTOR ** ***CNPT8 1-580-781-11 PIN, CONNECTOR ** ***CNPT9 1-216-039-00 METAL CHIP ** ***CNPT9			< JACK >					R11	1-216-099-00	METAL CHIP	120K	5%	1/10W
* CNJ33								R12	1-216-025-00	METAL CHIP	100	5%	1/10W
* CNJ72	* CNJ31	1-580-782-11	CONNECTOR, BOAR	D TO BOA	ARD			R13	1-216-100-00	METAL GLAZE	130K	5%	1/10W
CONNECTOR R21	* CNJ33	1-580-782-11	CONNECTOR, BOAR	D TO BOA	ARD			R14	1-216-067-00	METAL CHIP	5. 6K	5%	1/10W
* CNP21	* CNJ72	1-580-411-11	SOCKET, CONNECT	OR 4P				R15	1-249-430-11	CARBON	12K	5%	1/4W
* CNP32			< connector >					R21	1-216-099-00	METAL CHIP	120K	5%	1/10W
* CNP71								R22			100	5%	1/10W
R25			·					R23	1-216-100-00	METAL GLAZE			
R31	* CNP71	1-564-719-11	PIN, CONNECTOR	(SMALL	TYPE)	3P							
R31			< DIODE >					R25	1-249-430-11	CARBON	12K	5%	1/4W
R41 1-249-393-11 CARBON 10 5% 1/4W F R42 1-249-393-11 CARBON 10 5% 1/4W F R51 1-216-075-00 METAL CHIP 12K 5% 1/10W R51 1-216-075-00 METAL CHIP 12K 5% 1/10W R53 1-216-073-00 METAL CHIP 12K 5% 1/10W R53 1-216-073-00 METAL CHIP 12K 5% 1/10W R54 1-216-309-00 METAL CHIP 10K 5% 1/10W R54 1-216-309-00 METAL CHIP 5.6 5% 1/10W R55 1-216-309-00 METAL CHIP 5.6 5% 1/10W R56 1-216-295-00 METAL CHIP 5.6 5% 1/10W R56 1-216-298-00 METAL CHIP 5.6 5% 1/10W R71 1-216-082-00 METAL CHIP 2.2 5% 1/10W R71 1-216-082-00 METAL CHIP 2.2 5% 1/10W R72 1-216-083-00 METAL CHIP 2.2 5% 1/10W R73 1-216-089-00 METAL CHIP 47K 5% 1/10W R73 1-216-295-00 METAL CHIP 0 5% 1/8W R74 1-216-089-00 METAL CHIP 47K 5% 1/10W R74 1-216-296-00 METAL CHIP 0 5% 1/8W C VARIABLE RESISTOR 3 3 3 3 3 3 3 3 3								R31	1-216-033-00	METAL CHIP	220	5%	1/10₩
R42	D31	8-719-404-46	DIODE MA110					R32	1-216-033-00	METAL CHIP	220	5%	1/10W
R51 1-216-075-00 METAL CHIP 12K 5% 1/10W								R41	1-249-393-11	CARBON	10	5%	1/4W F
R52			< IC >					R42	1-249-393-11	CARBON	10	5%	1/4W F
R52	T.004	0 550 400 00	10 00455000					R51	1-216-075-00	METAL CHIP	12K	5%	1/10W
R53	1031	o-759-10b-02	1U uPU4570G2					DEO	1_916 075 00	METAL CUID	101/	Eev	1 /1 OW
R54 1-216-309-00 METAL CHIP S. 6 5% 1/10W			/ HIMDED DEGICE	י מח				1					
JW1 1-216-296-00 METAL CHIP 0 5% 1/8W R55 1-216-309-00 METAL CHIP 5.6 5% 1/10W JW2 1-216-295-00 METAL CHIP 0 5% 1/10W JW3 1-216-295-00 METAL CHIP 0 5% 1/10W JW4 1-216-295-00 METAL CHIP 0 5% 1/10W JW6 1-216-295-00 METAL CHIP 0 5% 1/10W JW6 1-216-295-00 METAL CHIP 0 5% 1/10W R71 1-216-082-00 METAL CHIP 22K 5% 1/10W R72 1-216-081-00 METAL CHIP 22K 5% 1/10W R73 1-216-089-00 METAL CHIP 47K 5% 1/10W JW7 1-216-295-00 METAL CHIP 0 5% 1/8W JW52 1-216-296-00 METAL CHIP 0 5% 1/8W JW53 1-216-296-00 METAL CHIP 0 5% 1/8W JW54 1-216-296-00 METAL CHIP 0 5% 1/8W JW55 1-216-296-00 METAL CHIP 0 5% 1/8W RV11 1-238-012-11 RES, ADJ, CARBON 1K RV12 1-238-551-11 RES, ADJ, CARBON 220K			V JOHEER RESIST	on /									
JW2 1-216-295-00 METAL CHIP 0 5% 1/10W JW3 1-216-295-00 METAL CHIP 0 5% 1/10W JW4 1-216-295-00 METAL CHIP 0 5% 1/10W JW6 1-216-295-00 METAL CHIP 0 5% 1/10W JW7 1-216-295-00 METAL CHIP 0 5% 1/10W JW52 1-216-296-00 METAL CHIP 0 5% 1/8W JW53 1-216-296-00 METAL CHIP 0 5% 1/8W JW54 1-216-296-00 METAL CHIP 0 5% 1/8W JW55 1-216-296-00 METAL CHIP 0 5% 1/8W	TW1	1-916-906-00	METAL CHID	n 1	5 %	1 /9W							
JW3 1-216-295-00 METAL CHIP 0 5% 1/10W JW4 1-216-295-00 METAL CHIP 0 5% 1/10W JW6 1-216-295-00 METAL CHIP 0 5% 1/10W R71 1-216-082-00 METAL CHIP 22K 5% 1/10W R72 1-216-081-00 METAL CHIP 22K 5% 1/10W R73 1-216-089-00 METAL CHIP 47K 5% 1/10W JW7 1-216-295-00 METAL CHIP 0 5% 1/8W JW52 1-216-296-00 METAL CHIP 0 5% 1/8W JW53 1-216-296-00 METAL CHIP 0 5% 1/8W JW54 1-216-296-00 METAL CHIP 0 5% 1/8W JW55 1-216-296-00 METAL CHIP 0 5% 1/8W RV11 1-238-012-11 RES, ADJ, CARBON 1K RV12 1-238-551-11 RES, ADJ, CARBON 220K								1	,				
JW4 1-216-295-00 METAL CHIP 0 5% 1/10W R71 1-216-082-00 METAL GLAZE 24K 5% 1/10W JW6 1-216-295-00 METAL CHIP 0 5% 1/10W R72 1-216-081-00 METAL CHIP 22K 5% 1/10W JW7 1-216-295-00 METAL CHIP 0 5% 1/10W R74 1-216-089-00 METAL CHIP 47K 5% 1/10W JW52 1-216-296-00 METAL CHIP 0 5% 1/8W 47K 5% 1/10W						-		1100	1 210 230 00	MEINE OIII	2. 2	0.40	17 1011
JW6 1-216-295-00 METAL CHIP 0 5% 1/10W R72 1-216-081-00 METAL CHIP 22K 5% 1/10W JW7 1-216-295-00 METAL CHIP 0 5% 1/10W R74 1-216-089-00 METAL CHIP 47K 5% 1/10W JW52 1-216-296-00 METAL CHIP 0 5% 1/8W /////> 1/10W ////> 1/10W ////> ////> 1/10W ////> ////> ////> ////> 1/10W ////> ////> ////> ////> 1/10W ////> ////> ////> ////> ////> ////> ////> ////> ////> ////								R71	1-216-082-00	METAL GLAZE	24K	5%	1/10W
R73													
JW7 1-216-295-00 METAL CHIP 0 5% 1/10W R74 1-216-089-00 METAL CHIP 47K 5% 1/10W JW52 1-216-296-00 METAL CHIP 0 5% 1/8W < VARIABLE RESISTOR > JW53 1-216-296-00 METAL CHIP 0 5% 1/8W < VARIABLE RESISTOR > JW54 1-216-296-00 METAL CHIP 0 5% 1/8W RV11 1-238-012-11 RES, ADJ, CARBON 1K JW55 1-216-296-00 METAL CHIP 0 5% 1/8W RV11 1-238-012-11 RES, ADJ, CARBON 220K	5110	_ 220 200 00			•	_, _0		1					
JW52 1-216-296-00 METAL CHIP 0 5% 1/8W < VARIABLE RESISTOR > JW53 1-216-296-00 METAL CHIP 0 5% 1/8W < VARIABLE RESISTOR > JW54 1-216-296-00 METAL CHIP 0 5% 1/8W RV11 1-238-012-11 RES, ADJ, CARBON 1K JW55 1-216-296-00 METAL CHIP 0 5% 1/8W RV11 1-238-012-11 RES, ADJ, CARBON 220K	JW7	1-216-295-00	METAL CHIP	0 !	5%	1/10W		ł					
JW53 1-216-296-00 METAL CHIP 0 5% 1/8W													•
JW54 1-216-296-00 METAL CHIP 0 5% 1/8W JW55 1-216-296-00 METAL CHIP 0 5% 1/8W RV11 1-238-012-11 RES, ADJ, CARBON 1K RV12 1-238-551-11 RES, ADJ, CARBON 220K										< VARIABLE RE	SISTOR >	>	
JW55 1-216-296-00 METAL CHIP 0 5% 1/8W RV11 1-238-012-11 RES, ADJ, CARBON 1K RV12 1-238-551-11 RES, ADJ, CARBON 220K													
RV12 1-238-551-11 RES, ADJ, CARBON 220K								RV11	1-238-012-11	RES, ADJ, CAR	BON 1K		
												{	
								1					

AUDIO-B

BD	
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Ref. No.	Part No.	Description		Ren	nark	Ref. No.	Part No.	Description			Remark
RV22		RES, ADJ, CARBO						< DIODE >			
RV71 RV72		RES, ADJ, CARBO RES, ADJ, CARBO				D101	8-719-021-25	DIODE UZM4.7X			
		< RELAY >						< IC >			
RY31	1-515-726-11	RELAY					8-752-058-77 8-759-822-36	IC CXA1372AQ IC LA6532M			
		< TRANSFORMER >				IC103	8-759-633-65	IC M54641L			
T51		COIL, BIAS OSCI		*****	****			< JACK >			
		BD BOARD, COMPL				J101 J102	1-216-295-00 1-216-295-00		0 0	5% 5%	1/10₩ 1/10₩
	n 1017 101 h	******				0102	1 210 200 00	< MOTOR >	ŭ	0.0	x, 2011
		< CAPACITOR >			i.	M101	V 4017 F04 I	MOTOR ASSY (SL	ED)		
C101		CERAMIC CHIP	0. 1uF		25V	MIOI	X-4911-304-1	·	ED)		
C102 C103	1-163-989-11 1-126-163-11	CERAMIC CHIP ELECT	0. 033uF 4. 7uF	10% 20%	25V 50V			< TRANSISTOR >			
C104 C105	1-163-038-00 1-126-154-11	CERAMIC CHIP ELECT	0. 1uF 47uF	20%	25V 6. 3V	Q101	8-729-901-01	TRANSISTOR DTC	44EK		
C106	1-126-154-11	FLFCT	47uF	20%	6. 3V			< RESISTOR >			
C107	1-126-154-11		47uF	20%	6. 3V	R101	1-216-097-00	METAL CHIP	100K	5%	1/10W
C108	1-163-038-00		0. 1uF	20%	25V	R102	1-216-095-00		82K	5%	1/10W
C109		CERAMIC CHIP	0. 1uF		25V	R103	1-216-091-00		56K	5%	1/10W
C110		CERAMIC CHIP	0. 033uF	10%	25V	R104	1-216-099-00		120K		1/10W
0110	1 100 000 11	Obligatio Office	01 000u1	10,0	201	R105	1-216-069-00		6. 8K		1/10W
C111	1-131-367-00	TANTALUM	22uF	10%	20V						•
C112	1-164-232-11		0. 01uF		50V	R106	1-216-061-00	METAL CHIP	3. 3K	5%	1/10W
C113	1-164-232-11	CERAMIC CHIP	0. 01uF		50V	R107	1-216-114-00	METAL GLAZE	510K	5%	1/10W
C114	1-164-161-11	CERAMIC CHIP	0. 0022uF	10%	100V	R108	1-216-105-00	METAL CHIP	220K	5%	1/10W
C115	1-164-161-11		0. 0022uF	10%	100V	R109	1-216-061-00	METAL CHIP	3. 3K	5%	1/10W
						R110	1-216-049-00	METAL CHIP	1K	5%	1/10W
C117	1-163-038-00	CERAMIC CHIP	0. 1uF		25V						
C118	1-163-038-00	CERAMIC CHIP	0. 1uF		25V	R111	1-216-049-00	METAL CHIP	1K	5%	1/10W
C119	1-164-161-11	CERAMIC CHIP	0. 0022uF	10%	100V	R112	1-216-083-00	METAL CHIP	27K	5%	1/10W
C120	1-163-989-11	CERAMIC CHIP	0. 033uF	10%	25V	R113	1-216-071-00	METAL CHIP	8. 2K	5%	1/10W
C151	1-163-019-00	CERAMIC CHIP	0. 0068uF	10%	50V	R114	1-216-105-00	METAL CHIP	220K	5%	1/10W
						R152	1-216-073-00	METAL CHIP	10K	5%	1/10W
C152	1-163-038-00	CERAMIC CHIP	0. 1uF		25V						
C153	1-163-006-11	CERAMIC CHIP	560PF	10%	50V	R153	1-216-085-00		33K	5%	1/10W
C154	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V	R154	1-216-085-00		33K	5%	1/10W
C155	1-163-023-00	CERAMIC CHIP	0. 015uF	5%	50V	R155	1-216-093-00	METAL CHIP	68K	5%	1/10 W
C171	1-163-038-00	CERAMIC CHIP	0. 1uF		25V	R156	1-216-081-00		22K	5%	1/10W
						R157	1-216-079-00	METAL CHIP	18K	5%	1/10₩
C172	1-163-038-00		0. 1uF		25V	n					4 14 000
C173	1-163-038-00		0. 1uF		25V	R158	1-216-079-00		18K	5%	1/10W
C174	1-163-038-00	CERAMIC CHIP	0. 1uF		25V	R159	1-216-079-00		18K	5%	1/10W
						R160	1-216-049-00		1K	5%	1/10W
		< CONNECTOR >			1	R171	1-216-001-00		10	5%	1/10W
CN101	1-568-796-11	SOCKET, CONNECTO	OR 22P			R172	1-216-001-00	METAL CHIP	10	5%	1/10W
CN102	1-568-795-11	SOCKET, CONNECTO	OR 12P			R173	1-216-001-00	METAL CHIP	10	5%	1/10W
		PIN, CONNECTOR		5P		R174	1-216-001-00	METAL CHIP	10	5%	1/10W
								< VARIABLE RESI	STOR >		
						RV101	1-238-016-11	RES, ADJ, CARBO	N 10K		
					1			RES, ADJ, CARBO			
					l l	117104	1 200 01011	illo, ADJ, VARDO	IN TOIL		

CD MAIN

Ref. No.	Part No.	Description		Rei	nark	Ref. No.	Part No.	Descript	ion			Ren	nark
		< SWITCH >				C535	1-137-358-91	FILM		0. 0001	uF	 5%	50V
						C536	1-110-335-11			100PF		5%	50V
S101	1-572-085-11	SWITCH, LEAF (L	IMIT)			C536	1-137-358-91			0. 0001		5%	50V
		******		******	****	C537	1-110-335-11			100PF		5%	50V
						C537	1-137-358-91			0. 0001		5%	50V
*	A-4356-652-A	CD MAIN BOARD,	COMPLETE (D	209 · AEP	. R.		1 107 000 01	LIUM	,	, 0001	uı	0.0	301
·	A 4000 002 A	IT, EE, EA, AUS, MY				C538	1-164-159-11	CEDAMIC	ſ	0. 1uF			50V
		EE, MY, SP, CIS, AU		1, 1, 11,	Δ/1,	C539	1-164-159-11			0. 1uF			50V
		*********	,	******	*****	C542	1-130-471-00			0. 101 0. 001ul	C	5%	50V
*	A-4356-661-A	CD MAIN BOARD,	COMPLETE			C542	1-137-364-11			0. 001ul 0. 001ul		5%	50V
	11 1000 001 11	(D209:UK, G/D309				C543	1-130-471-00). 001ul). 001ul		5%	50V
		*******				0343	1-130-4/1-00	MILAR	(J. OOTU	r	J/6	30γ
						C543	1-137-364-11	CIIM	(0. 001ul	c	5%	50V
	7-685-646-79	SCREW +BVTP 3X8	TVPF2 N-S			C544	1-124-907-11			5. 001ui 10uF		20%	
	7 000 040 70	DOILEN DVII ONO	111 62 11 5			C544 C545	1-124-907-11						50V
		< CAPACITOR >				C548	1-124-907-11			10uF		20%	50V
		(On horron)								470uF		20%	10V
C500	1-124-564-11	FIFCT	4700uF	20%	25V	C549	1-124-443-00	ELEUI		100uF		20%	10V
C501	1-126-946-11		6800uF	20%	25V 25V	0550	1 104 007 11	ri raw		10 F		0.00	E017
C502	1-126-176-11		220uF	20%	10V	C550	1-124-907-11			10uF		20%	50V
C502	1-120-170-11				50V	C551	1-124-907-11			10uF		20%	50V
C504	1-124-907-11		10uF 1uF	20%		C552	1-164-159-11). 1uF			50V
6304	1-124-905-11	ELECI	ıur	20%	50V	C553	1-164-159-11). 1uF	_		50V
CEDE	1 104 007 11	EL EOT	10E	000	F017	C554	1-130-480-00	MYLAR	(D. 0056i	uF	5%	50V
C505	1-124-907-11		10uF	20%	50V								
C506	1-124-472-11		470uF	20%	10V	C554	1-137-437-11			D. 0056i		5%	50V
C507	1-164-159-11		0. 1uF	0.00	50V	C555	1-130-480-00			D. 0056i		5%	50V
C508	1-124-472-11		470uF	20%	10V	C555	1-137-437-11	FILM	(0. 0056	uF	5%	50V
C509	1-164-159-11	CERAMIC	0. 1uF		50V	C560	1-164-159-11		(). 1uF			50V
						C561	1-164-159-11	CERAMIC	(). 1uF			50V
C510	1-136-165-00		0. 1uF	5%	50V								
C511	1-136-165-00		0. 1uF	5%	50V	C600	1-162-286-31	CERAMIC	2	220PF		10%	50V
C512	1-124-443-00		100uF	20%	10V	C601	1-162-294-31	CERAMIC	(). 001ul	F	10%	50V
C513	1-164-159-11		0. 1uF		50V	C602	1-162-286-31	CERAMIC	2	220PF		10%	50V
C515	1-136-161-00	FILM	0. 047uF	5%	50V	C603	1-110-339-11	MYLAR	2	220PF		5%	50V
						C603	1-137-360-91	FILM	2	220PF		5%	50V
C516	1-161-374-11		0. 0015uF	20%	50V								
C517	1-124-443-00		100uF	20%	10V	C604	1-110-339-11	MYLAR	2	220PF		5%	50V
C518	1-124-902-00		0. 47uF	20%	50V	C604	1-137-360-91	FILM	2	220PF		5%	50V
C519	1-136-153-00		0. 01uF	5%	50V	C605	1-164-159-11	CERAMIC	(). 1uF			50V
C520 -	1-124-443-00	ELECT	100uF	20%	10V	C607	1-161-494-00	CERAMIC	(). 022ul	F		25V
						C608	1-164-159-11	CERAMIC	(). 1uF			50V
C521	1-136-165-00	FILM	0. 1uF	5%	50V								
C522	1-124-472-11	ELECT	470uF	20%	10V	C609	1-164-159-11	CERAMIC	(). 1uF			50V
C524	1-126-176-11	ELECT	220uF	20%	10V	C610	1-124-572-11	ELECT	1	100uF		20%	63V
C525	1-164-159-11	CERAMIC	0. 1uF		50V	C611	1-164-159-11	CERAMIC	(). 1uF			50V
C526	1-124-443-00	ELECT	100uF	20%	10V	C612	1-124-907-11	ELECT	1	10uF		20%	50V
						C613	1-164-159-11		(). 1uF			50V
C527	1-161-494-00	CERAMIC	0. 022uF		25V								
C528	1-162-196-31	CERAMIC	5. 6PF	10%	50V	C614	1-124-443-00	ELECT	1	100uF		20%	10V
C529	1-162-196-31	CERAMIC	5. 6PF	10%	50V	C615	1-124-472-11			470uF		20%	10V
C530	1-124-443-00	ELECT	100uF	20%	10V	C616	1-164-159-11). 1uF			50V
C531	1-161-494-00	CERAMIC	0. 022uF		25V	C801	1-162-290-31			470PF		10%	50V
,						5501		O LIMBIL U	-			_ 579	001
C532	1-162-283-31	CERAMIC	120PF	10%	50V			< CONNEC	TOR >				
C533	1-162-283-31		120PF	10%	50V			COMPL					
C534	1-110-335-11		100PF	5%	50V	* CN501	1-568-842-11	SOCKET	CONNECTOR	27P			
C534	1-137-358-91		0. 0001uF	5%	50V		1-568-822-11						
C535	1-110-335-11		100PF	5%	50V	1	1-565-291-11	-			(CVCTF	M CONT	י וחמי
						1 . 011000	1 000 231 11	DOUILI,	COMMEDIU	LIJI	OIDIE	00111	MOD/

CD MAIN

CREED* CARGOD**** CARGOD***** CARGOD****** CARGOD************************************	Ref. No.	Part No.	Description .	Remark	Ref. No.	Part No.	Description	n		Re	emark
Section Sect	* CN601	1-564-511-11	PLUG, CONNECTOR 8P		Q508	8-729-119-78	TRANSISTOR	2SC2785-HF	Έ		
ORDING R-719-100-15 DIODE UZI-61.3 Q605 R-729-119-78 TRANSISTOR 25C275-FIFE FRANSISTOR 25C275-FIFE FRAN					Q600	8-729-119-76	TRANSISTOR	2SA1175-HF	Έ		
Section Sect			< DIODE >		Q601						
Section Sect					Q602						
Section Sect	D504	8-719-000-54	DIODE UZL-6L3		Q605	8-729-119-78	TRANSISTOR	2SC2785-HF	E		
B-719 - 210-21 DIODE INCLUDE	D505	8-719-987-63	DIODE 1N4148M								
	D506						< RESISTOR	>			
B500			•								
DRDIO 8-719-200-82 DIONE HES2 R504 1-249-417-11 CABBON 1K 5% 1/4W F	D508	8-719-987-63	DIODE 1N4148M		I						
B-719 - 200 - 22 DIONE IES2 R506 1-249 - 417 - 11 CABBON 1K 5% 1/4W F					I						
B603 8-719-200-22 DIODE TIES2 B505 1-249-417-11 CABBON 1K 5x 1/4W F					1						
Debit Record Re											
B-719-987-63 DIODE 1N414BM					R505	1-249-417-11	CARBON	1K	5%	1/4W	F
B507 1-249-477-11 CARBON 1K 5% 1/4W F											
BOBD 8-719-987-63 DIODE IN4148M R511 1-249-423-11 CARBON 3. 3K 5k 1/4W F R613 1-249-423-11 CARBON 10K 5k 1/4W F R613 1-249-429-11 CARBON 10K 5k 1/4W F R613 1-249-429-11 CARBON 10K 5k 1/4W F R614 1-249-421-11 CARBON 10K 5k 1/4W F R616 1-412-473-21 INDUCTOR OUH R616 1-249-421-11 CARBON 1K 5k 1/4W F F F F F F F F F	D607	8-719-987-63	DIODE 1N4148M								
B611 R-719-500-36 DIODE D2SB20 B512 1-249-429-11 CARBON 3. 3K 5k 1/4W F R513 1-249-429-11 CARBON 1 K 5% 1/4W F R513 1-249-429-11 CARBON 1 K 5% 1/4W F R513 1-249-429-11 CARBON 1 K 5% 1/4W F R515 1-249-427-11 CARBON 1 K 5% 1/4W F R516 1-249-427-11 CARBON 1 K 5% 1/4W F R518 1-249-433-11 CARBON 1 K 5% 1/4W F R519					R507	1-249-417-11	CARBON				
R513	D608				R511						
FERRITE BEAD	D801	8-719-500-36	DIODE. D2SB20		R512			3. 3K	5%		F
R514 1-249-441-11 CARBON 100K 5% 1/4W FB602 1-412-473-21 INDUCTOR OUH R515 1-249-412-11 CARBON 10K 5% 1/4W FB603 1-412-473-51 INDUCTOR OUH R516 1-249-417-11 CARBON 1K 5% 1/4W FB603 1-412-473-51 INDUCTOR OUH R517 1-249-417-11 CARBON 1K 5% 1/4W FB603 1-412-473-21 INDUCTOR OUH R518 1-249-417-11 CARBON 1K 5% 1/4W FB604 1-412-473-21 INDUCTOR OUH R519 1-249-417-11 CARBON 1K 5% 1/4W FB605 1-249-420-11 CARBON 1K 5% 1/4W FB606 1-412-473-21 INDUCTOR OUH R519 1-249-417-11 CARBON 1K 5% 1/4W FB606 1-412-473-21 INDUCTOR OUH R519 1-249-413-11 CARBON 1K 5% 1/4W FB606 1-249-429-11 CARBON 10K 5% 1/4W FB607 1-249-413-11 CARBON 10K 5% 1/4W FB608 1-249-433-11 CARBON 10K 5% 1/4W FB608 1-249-433-11 CARBON 10K 5% 1/4W FB608 1-249-433-11 CARBON 10K 5% 1/4W FB609 1-249-433-11 CARBON					R513	1-249-429-11	CARBON	10K	5%	1/4W	
F8601 1-412-473-21 INDUCTOR OUH			< FERRITE BEAD >								
FB602 1-412-473-21 INDUCTOR OUH R516 1-249-417-11 CARBON 1K 5% 1/4W FB603 1-412-473-51 INDUCTOR OUH R517 1-249-417-11 CARBON 1K 5% 1/4W FB604 1-412-473-21 INDUCTOR OUH R518 1-249-417-11 CARBON 1.8K 5% 1/4W FB604 1-412-473-21 INDUCTOR OUH R519 1-249-417-11 CARBON 1.8K 5% 1/4W FB606 1-412-473-21 INDUCTOR OUH R519 1-249-417-11 CARBON 1.8K 5% 1/4W FB606 1-412-473-21 INDUCTOR OUH R520 1-249-429-11 CARBON 10K 5% 1/4W FB606 1-249-429-11 CARBON 10K 5% 1/4W FB607 1.249-429-11 CARBON 1.8K 1.249-439-11 CARBON 1.8K 1/4W FB607 1.249-429-11 CARBON 1.8K 1/4W FB607 1.249-439-11 CARBON 1.8K 1/4W 1.249-439-11 CARBON 1.249-439-41 CARBON 1.249-					R514	1-249-441-11	CARBON	100K	5%	1/4W	
FB603 1-412-473-51 INDUCTOR OUH R517 1-249-417-11 CARBON 1K 5% 1/4W FB604 1-412-473-21 INDUCTOR OUH R518 1-249-420-11 CARBON 1.8K 5% 1/4W FB604 1-412-473-21 INDUCTOR OUH R518 1-249-420-11 CARBON 1.8K 5% 1/4W FB604 1-412-473-21 INDUCTOR OUH R519 1-249-420-11 CARBON 1K 5% 1/4W FB605 1-249-423-11 CARBON 10K 1/4W FB605 1-249-423-11 CARBON 10K 1/4W FB605 1-249-423-11 CARBON 1/4W FB605 1-249-421-11 CARBON 1/4W FB605 1-249-421-11 CARBON 1/4W FB605 1-249-421-11 CARBON 1/4W FB605 1/4W FB605 1/4W	FB601	1-412-473-21	INDUCTOR OUH		R515	1-249-429-11	CARBON	10K	5%	1/4W	
R518 1-249-420-11 CARBON 1. 8K 5% 1/4W F	FB602	1-412-473-21	INDUCTOR OUH		R516	1-249-417-11	CARBON	1K	5%	1/4W	F
C C R519 1-249-417-11 CARBON 1K 5% 1/4W F R520 1-249-427-11 CARBON 10K 5% 1/4W F R520 1-249-423-11 CARBON 10K 5% 1/4W F R520 1-249-433-11 CARBON 22K 5% 1/4W R521 R522 1-249-433-11 CARBON 22K 5% 1/4W R522 1-249-433-11 CARBON 22K 5% 1/4W R525 1-249-433-11 CARBON 22K 5% 1/4W R525 R526 R5	FB603	1-412-473-51	INDUCTOR OUH		R517	1-249-417-11	CARBON	1K	5%	1/4W	F
R520 1-249-429-11 CARBON 10K 5% 1/4W R521 1-249-433-11 CARBON 22K 5% 1/4W R520 8-759-630-21 C M5290P-16 R522 1-249-433-11 CARBON 22K 5% 1/4W R520 8-759-352-93 C CXD2500BQ R523 1-249-433-11 CARBON 22K 5% 1/4W R520 8-752-355-45 C CXD2500BQ R523 1-249-433-11 CARBON 22K 5% 1/4W R525 1-249-433-11 CARBON 22K 5% 1/4W R526 1-249-433-11 CARBON 27K 5% 1/4W R527 1-249-433-11 CARBON 27K 5% 1/4W R528 1-249-433-11 CARBON 27K 5% 1/4W R529 1-249-433-11 CARBON 27K 5% 1/4W R529 1-249-433-11 CARBON 27K 5% 1/4W R530 1-249-433-11 CARBON 27K 5% 1/4W R531 1-249-433-11 CARBON 27K 5% 1/4W R530 1-249-433-11 CARBON 1.5K 5% 1/4W R530 1-249-433-11 CARBON 1.5K 5% 1/4W R530 1-249-419-11 CARBON 1.5K 5% 1/4W R530 1-249-	FB604	1-412-473-21	INDUCTOR OUH		R518	1-249-420-11	CARBON	1. 8K	5%	1/4W	F
R520 1-249-429-11 CARBON 10K 5% 1/4W R521 1-249-433-11 CARBON 22K 5% 1/4W R520 8-759-630-21 C M5290P-16 R522 1-249-433-11 CARBON 22K 5% 1/4W R520 8-759-352-93 C CXD2500BQ R523 1-249-433-11 CARBON 22K 5% 1/4W R520 8-752-355-45 C CXD2500BQ R523 1-249-433-11 CARBON 22K 5% 1/4W R525 1-249-433-11 CARBON 22K 5% 1/4W R526 1-249-433-11 CARBON 27K 5% 1/4W R527 1-249-433-11 CARBON 27K 5% 1/4W R528 1-249-433-11 CARBON 27K 5% 1/4W R529 1-249-433-11 CARBON 27K 5% 1/4W R529 1-249-433-11 CARBON 27K 5% 1/4W R530 1-249-433-11 CARBON 27K 5% 1/4W R531 1-249-433-11 CARBON 27K 5% 1/4W R530 1-249-433-11 CARBON 1.5K 5% 1/4W R530 1-249-433-11 CARBON 1.5K 5% 1/4W R530 1-249-419-11 CARBON 1.5K 5% 1/4W R530 1-249-			/ IC \		DE10	1_940_417_11	CADDON	1 V	E0/	1 // 1	E.
IC500 8-759-071-48 IC TA7807S R521 1-249-433-11 CARBON			< 10 /								Γ
R520	ICEOO	0 750 071 40	IC TA70070								
R520											
10503 8-752-355-45 1C CXD2565M 1C CX											
R524 1-249-433-11 CARBON 22K 5% 1/4W F R525 1-249-433-11 CARBON 4.7K 5% 1/4W F R526 1-249-435-11 CARBON 4.7K 5% 1/4W F R526 1-249-435-11 CARBON 22K 5% 1/4W F R526 1-249-433-11 CARBON 22K 5% 1/4W R526 1-249-433-11 CARBON 1.5K 5% 1/4W F R526 1-249-419-11 CARBON 1.5K 5% 1/4W F R526 1-249-421-11 CARBON 1.5K 5% 1/4W F R526 1-249-421-11 CARBON 1.5K 5% 1/4W F R526 1-249-425-11 CARBON 1.5K 5% 1/4W F R526			·		N323	1-249-455-11	UARDUN	ZZN	3/6	1/411	
R525 1-249-425-11 CARBON 4. 7K 5% 1/4W F					DEGA	1 940 499 11	CADDON	ากห	E@	1 //₩	
R526 R526 R526 R526 R526 R526 R527 R526 R527 R528 R527 R528 R527 R528	10004	0-709-000-49	IC MC14U00DCP								Б
R529 1-249-433-11 CARBON 22K 5% 1/4W R529 R528 1-249-433-11 CARBON 22K 5% 1/4W R529 R528 1-249-433-11 CARBON 22K 5% 1/4W R530 1-249-433-11 CARBON 22K 5% 1/4W R530 1-249-433-11 CARBON 22K 5% 1/4W R530 1-249-433-11 CARBON 22K 5% 1/4W R531 1-249-433-11 CARBON 22K 5% 1/4W R532 1-249-433-11 CARBON 22K 5% 1/4W R533 1-249-433-11 CARBON 1.5K 5% 1/4W F R535 1-249-419-11 CARBON 1.5K 5% 1/4W F R535 1-249-419-11 CARBON 1.5K 5% 1/4W F R536 1-249-419-11 CARBON 1.5K 5% 1/4W F R538 1-249-421-11 CARBON 1.5K 5% 1/4W F R539 1-249-421-11 CARBON 1.5K 5% 1/4W F R548 1-249-425-11 CARBON 1.5K 5% 1/4W F R548 1-249-425-11 CARBON 1.5K 5% 1/4W F R545 1-249-425-11 CARBON 1.5K 5% 1/4W F R545 1-249-425-11 CARBON 1.5K 5% 1/4W F R545 1-249-425-11 CARBON 1.5K 5% 1/4W F R546 1-249-425-11 CARBON 1.5K 5%	TOTOL	0.750.000.40	TO MEDDOL								Г
R528 1-249-433-11 CARBON 22K 5% 1/4W											
COIL R529 1-249-433-11 CARBON 22K 5% 1/4W R530 1-249-433-11 CARBON 22K 5% 1/4W R530 1-249-433-11 CARBON 22K 5% 1/4W R531 1-249-433-11 CARBON 22K 5% 1/4W R532 1-249-433-11 CARBON 22K 5% 1/4W R532 1-249-433-11 CARBON 22K 5% 1/4W R532 1-249-433-11 CARBON 22K 5% 1/4W R533 1-249-433-11 CARBON 22K 5% 1/4W R530 1-532-685-00 LINK, IC R534 1-249-419-11 CARBON 1.5K 5% 1/4W F R536 1-249-419-11 CARBON 1.5K 5% 1/4W F R536 1-249-419-11 CARBON 1.5K 5% 1/4W F R536 1-249-419-11 CARBON 1.5K 5% 1/4W F R538 1-249-419-11 CARBON 1.5K 5% 1/4W F R538 1-249-421-11 CARBON 1.5K 5% 1/4W F R538 1-249-421-11 CARBON 1.5K 5% 1/4W F R538 1-249-421-11 CARBON 1.5K 5% 1/4W F R539 1-249-421-11 CARBON 1.5K 5% 1/4W F R539 1-249-421-11 CARBON 1.5K 5% 1/4W F R549 1-249-425-11 CARBON 1.5K 5% 1/4											
R530 1-249-433-11 CARBON 22K 5% 1/4W	10307	0-739-034-31	TO MUZIOAF		NJZ0	1-245-455-11	UARDUN	ZZN	JA	1/411	
Description			< COIL >		R529	1-249-433-11	CARBON	22K	5%	1/4W	
R532 1-249-433-11 CARBON 22K 5% 1/4W R533 1-249-433-11 CARBON 22K 5% 1/4W R533 1-249-433-11 CARBON 22K 5% 1/4W R533 1-249-433-11 CARBON 22K 5% 1/4W F R530 1-532-637-00 LINK, IC 1.0A R535 1-249-419-11 CARBON 1.5K 5% 1/4W F R536 1-249-419-11 CARBON 1.5K 5% 1/4W F R536 1-249-419-11 CARBON 1.5K 5% 1/4W F R538 1-249-421-11 CARBON 1.5K 5% 1/4W F R539 1-249-421-11 CARBON 1.5K 5% 1/4W F R539 1-249-421-11 CARBON 1.5K 5% 1/4W F R549-429-421-11 CARBON 1.5K 5% 1/4W F R549-429-425-11 CARBON 1.5K 5% 1/4W F R549-425-11 CARBON 1.5K 1/4W F R549-425-11 CARBO					R530	1-249-433-11	CARBON	22K	5%	1/4W	
R533 1-249-433-11 CARBON 22K 5% 1/4W F	L501	1-410-513-11	INDUCTOR 22uH		R531	1-249-433-11	CARBON	22K	5%	1/4W	
PS500 1-532-685-00 LINK, IC R534 1-249-419-11 CARBON 1. 5K 5% 1/4W F PS501 1-532-637-00 LINK, IC 1. 0A R535 1-249-419-11 CARBON 1. 5K 5% 1/4W F (TRANSISTOR) R536 1-249-419-11 CARBON 1. 5K 5% 1/4W F (TRANSISTOR) R537 1-249-419-11 CARBON 1. 5K 5% 1/4W F R538 1-249-421-11 CARBON 1. 5K 5% 1/4W F R538 1-249-421-11 CARBON 2. 2K 5% 1/4W F R530 8-729-140-96 TRANSISTOR 2SD774-34 R539 1-249-421-11 CARBON 2. 2K 5% 1/4W F R500 8-729-900-65 TRANSISTOR DTA144ES R542 1-249-441-11 CARBON 100K 5% 1/4W R503 8-729-900-65 TRANSISTOR DTA144ES R543 1-249-441-11 CARBON 100K 5% 1/4W R504 8-729-900-65 TRANSISTOR DTA144ES R543 1-249-441-11 CARBON 100K 5% 1/4W R505 8-729-141-30 TRANSISTOR 2SC3623A-LK R506 8-729-141-30 TRANSISTOR 2SC3623A-LK R507 R548 1-249-425-11 CARBON 4. 7K 5% 1/4W F					R532	1-249-433-11	CARBON	22K	5%	1/4W	
PS501 1-532-637-00 LINK, IC 1. 0A			< IC FINK >		R533	1-249-433-11	CARBON	22K	5%	1/4W	
PS501 1-532-637-00 LINK, IC 1. 0A	P9500	1-532-685-00	LINK IC		R534	1-9/10-/110-11	CARRON	1 5K	5%	1 //W	F
R536 1-249-419-11 CARBON 1. 5K 5% 1/4W F											
RESTRANSISTOR RESTRICT REST	1 0001	1 332 037 00	LIM, 10 1. UA								
R538 1-249-421-11 CARBON 2. 2K 5% 1/4W F Q500 8-729-140-96 TRANSISTOR 2SD774-34 Q501 8-729-141-83 TRANSISTOR 2SB1094-LK Q502 8-729-900-65 TRANSISTOR DTA144ES Q503 8-729-900-65 TRANSISTOR DTA144ES Q504 8-729-900-65 TRANSISTOR DTA144ES Q504 8-729-900-65 TRANSISTOR DTA144ES Q505 8-729-141-30 TRANSISTOR DTA144ES Q506 8-729-141-30 TRANSISTOR 2SC3623A-LK Q506 8-729-141-30 TRANSISTOR 2SC3623A-LK Q507 R548 1-249-425-11 CARBON Q508 R549-425-11 CARBON Q509 R549-425-11 CARBON Q509 R549-425-11 CARBON Q509 R549-425-11 CARBON Q509 R549-425-11 CARBON Q500 R549-425			/ TRANCICTOR >								
Q500 8-729-140-96 TRANSISTOR 2SD774-34 Q501 8-729-141-83 TRANSISTOR ZSB1094-LK Q502 8-729-900-65 TRANSISTOR DTA144ES Q503 8-729-900-65 TRANSISTOR DTA144ES Q504 8-729-900-65 TRANSISTOR DTA144ES Q504 8-729-900-65 TRANSISTOR DTA144ES Q505 8-729-9141-30 TRANSISTOR DTA144ES Q506 8-729-141-30 TRANSISTOR ZSC3623A-LK Q506 8-729-141-30 TRANSISTOR ZSC3623A-LK Q507 RS48 1-249-425-11 CARBON Q508 RS548 1-249-425-11 CARBON Q509 RS548 1-249-425-			\ TIMISTOTOTI /								
Q501 8-729-141-83 TRANSISTOR 2SB1094-LK R539 1-249-421-11 CARBON 2. 2K 5% 1/4W F Q502 8-729-900-65 TRANSISTOR DTA144ES R542 1-249-441-11 CARBON 100K 5% 1/4W Q503 8-729-900-65 TRANSISTOR DTA144ES R543 1-249-441-11 CARBON 100K 5% 1/4W Q504 8-729-900-65 TRANSISTOR DTA144ES R544 1-249-425-11 CARBON 4. 7K 5% 1/4W F R545 1-249-425-11 CARBON 4. 7K 5% 1/4W F Q505 8-729-141-30 TRANSISTOR 2SC3623A-LK R548 1-249-425-11 CARBON 4. 7K 5% 1/4W F Q506 8-729-141-30 TRANSISTOR 2SC3623A-LK R548 1-249-425-11 CARBON 4. 7K 5% 1/4W F	0500	8-720-1 <i>1</i> 0-06	TRANSISTOR 250774-34		11330	1 243 421 11	UMIDUN	Z. ZII	J/0	1/411	r
Q502 8-729-900-65 TRANSISTOR DTA144ES R542 1-249-441-11 CARBON 100K 5% 1/4W Q503 8-729-900-65 TRANSISTOR DTA144ES R543 1-249-441-11 CARBON 100K 5% 1/4W Q504 8-729-900-65 TRANSISTOR DTA144ES R544 1-249-425-11 CARBON 4. 7K 5% 1/4W F R545 1-249-425-11 CARBON 4. 7K 5% 1/4W F Q505 8-729-141-30 TRANSISTOR 2SC3623A-LK R548 1-249-425-11 CARBON 4. 7K 5% 1/4W F Q506 8-729-141-30 TRANSISTOR 2SC3623A-LK R548 1-249-425-11 CARBON 4. 7K 5% 1/4W F	-				D530	1-9/0-/91-11	CADRON	2 2K	59/	1 //W	F
Q503 8-729-900-65 TRANSISTOR DTA144ES R543 1-249-441-11 CARBON 100K 5% 1/4W Q504 8-729-900-65 TRANSISTOR DTA144ES R544 1-249-425-11 CARBON 4. 7K 5% 1/4W F Q505 8-729-141-30 TRANSISTOR 2SC3623A-LK R548 1-249-425-11 CARBON 4. 7K 5% 1/4W F Q506 8-729-141-30 TRANSISTOR 2SC3623A-LK R548 1-249-425-11 CARBON 4. 7K 5% 1/4W F											1
Q504 8-729-900-65 TRANSISTOR DTA144ES R544 1-249-425-11 CARBON 4. 7K 5% 1/4W F Q505 8-729-141-30 TRANSISTOR 2SC3623A-LK Q506 8-729-141-30 TRANSISTOR 2SC3623A-LK R548 1-249-425-11 CARBON 4. 7K 5% 1/4W F R548 1-249-425-11 CARBON 4. 7K 5% 1/4W F											
R545 1-249-425-11 CARBON 4. 7K 5% 1/4W F Q505 8-729-141-30 TRANSISTOR 2SC3623A-LK Q506 8-729-141-30 TRANSISTOR 2SC3623A-LK R548 1-249-425-11 CARBON 4. 7K 5% 1/4W F											E.
Q505 8-729-141-30 TRANSISTOR 2SC3623A-LK Q506 8-729-141-30 TRANSISTOR 2SC3623A-LK R548 1-249-425-11 CARBON 4.7K 5% 1/4W F	Ų3U4	0-149-900-00	THANSISTON DIAI44ES								
Q506 8-729-141-30 TRANSISTOR 2SC3623A-LK R548 1-249-425-11 CARBON 4.7K 5% 1/4W F	OEDE	0_790_141_90	TDANCICTOD OCCOCOSA IV		no45	1-748-479-11	VANDUN	4. /K	J76	1/4W	Г
					DE 40	1_940_495_44	CADBON	A 711	Εoν	1 /4111	Б
4. /N 5% 1/4W F											
	4 ของ	0-172-113-18	11M101010N 2002/00-NFE	I	กอ49	1-742-472-11	OMRIDUN	4. //	JA	1/41	Г

CD MAIN CD PANEL

WAI	N C	D PANE	L			
Ref. No.	Part No.	Description	_		Re	mark
R550	1-249-413	-11 CARBON	- 470	5%	1/4W	F
R551		-11 CARBON	100K	5%	1/4W	
R552		-11 CARBON	100K	5%	1/4W	
	1-249-441		100K	5%	1/4W	
R600		-11 CARBON	220	5%	1/4W	F
11000	1 210 .100	II ombon	220	0.0	2, 2	•
R601	1-249-409	-11 CARBON	220	5%	1/4W	F
R602	1-249-433	-11 CARBON	22K	5%	1/4W	
	1-249-433		22K	5%	1/4W	
R604	1-249-433	-11 CARBON	22K	5%	1/4W	
R609	1-249-435	-11 CARBON	33K	5%	1/4W	
R610	1-249-438	-11 CARBON	56K	5%	1/4W	
R611	1-249-429	-11 CARBON	10K	5%	1/ 4W	
R612	1-249-429	-11 CARBON	10K	5%	1/4W	
R613	1-249-417	-11 CARBON	1K	5%	1/4W	F
R614	1-249-429	-11 CARBON	10K	5%	1/4W	
						*
	1-249-433		22K	5%	1/4W	
R616	1-249-393	-11 CARBON	10	5%	1/4W	F
R617		-11 CARBON	470	5%	1/4W	
R801	1-249-405	-11 CARBON	100	5%	1/4W	F
		< TRANSFORM	ER >			
<u>1</u> 1500	1-423-426	-11 TRANSFORMER,	POWER			
		< VIBRATOR 3	>			
X501		-21 VIBRATOR, C				
*****	*****	*******	******	****	******	****
*	A-4356-65	3-A CD PANEL BO	ARD. COMPI	ETE ((D209: AF	EP. E.
		IT, EE, EA, AU				
		EE, MY, SP, CI	S, AUS)			
		*******			******	*****
*	A-4356-66	2-A CD PANEL BOA		ETE		
		(D209:UK, G/I		***		
		******	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	***		
*	4-955-816	-01 HOLDER (1F),	FL TUBE			
		< CAPACITOR	>			
מחדים	1_161 404	-00 CERAMIC	0.000	F		257/
C702		-00 CERAMIC -00 CERAMIC	0. 022 0. 022			25V 25V
			0. 022			25V 25V
C704 C705	1-16/-150	-00 CERAMIC -11 CERAMIC	0. 022 0. 1uF			20V 50V
	1-104-139		0. 1dr 47uF		20%	10V
0700	1 174 170	OU PREAT	-1/Ul		20/0	101
		< CONNECTOR	>			
* CN701	1-568-842	-11 SOCKET, CON	NECTOR 27F)		
		< COMPOSITIO	ON CIRCUIT	BLOC	K >	
CD701	1-230-612	-11 COMPOSITION	CIRCUIT B	ווטכג		
		-11 COMPOSITION -11 COMPOSITION				
01102	1719.019	TT COMILOSTITON	OTHOUTH E	POOL		

Ref. No.	Part No.	Descript	tion			Re	mark
		< DIODE	>				
D701	8-719-987-63	DIODE 11	N4148M				
D702	8-719-987-63	DIODE 11	14148M				
	8-719-987-63						
	8-719-987-63						
D705	8-719-987-63	DIODE 1	14148M				
D706	8-719-987-63	DIODE 1	N4148M				
D707	8-719-987-63	DIODE 11	14148M				
	8-719-987-63						
D709	8-719-987-63	DIODE 11	14148M				
D710	8-719-987-63	DIODE 1	V4148M				
D711	8-719-987-63	DIODE 1	V4148M				
D712	8-719-001-21	DIODE UZ	ZL-9H1				
		< FLUORE	ESCENT IN	DICATO)R >		
FLD701	1-519-681-21	INDICATO	OR TUBE,	FLUORI	SCENT		
		< IC >					
IC701	8-759-156-33	IC uPD7	5216ACW-V	¥32			
		< RESIST	ror >				
R701	1-249-435-11	CARBON		33K	5%	1/4W	
R702	1-249-435-11	CARBON		33K	5%	1/4W	
R703	1-249-435-11	CARBON		33K	5%	1/4W	
	1-249-435-11			33K	5%		
	1-249-435-11			33K	5%	1/4W	
11,00	1 210 100 11	orani borr			•		
	1-249-425-11			4. 7K	5%	1/4W	F
R707	1-249-425-11	CARBON		4. 7K	5%	1/4W	F
R708	1-249-439-11	CARBON		68K	5%	1/4W	
		< SWITCH	H >				
S701	1-554-303-21	SWITCH,	TACTILE	(PROGI	RAM)		
S702	1-554-303-21	SWITCH,	TACTILE	(REPE	AT)		
S703	1-554-303-21	SWITCH,	TACTILE	(PAUSI	E)		
S704	1-554-303-21		TACTILE		,		
S705	1-554-303-21		TACTILE		(NUE		
S706	1-554-303-21	SWITCH.	TACTILE	(FADEI	₹)		
S707	1-554-303-21		TACTILE	(PLAY	ĺ		
S708	1-554-303-21		TACTILE				
S709	1-554-303-21		TACTILE				
S710	1-554-303-21		TACTILE				
0110					•		
S711	1-554-303-21		TACTILE				
S712	1-554-303-21		TACTILE	(OPEN,	/CLOSE)	
S713	1-554-303-21	SWITCH,	TACTILE	(STOP))		
S714	1-554-303-21	SWITCH,	TACTILE	(AMS I	×N)		
S715	1-554-303-21	SWITCH,	TACTILE	(EDIT	/TIME	FADE)	

The components identified by Les composants identifiés mark ⚠ or dotted line with mark. 🛕 are critical for safety. Replace only with part number specified.

par une marque 🛕 sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

	C	D PANEL	LEAF	SW-A	LE	AF SW	B LO	ADING	TC	MAIN
Ref. No.	Part No.	Description	Ren	nark	Ref. No.	Part No.	Description		Rema	rk —
S716	1-554-303-2	1 SWITCH, TACTILE (TIME	SET)				< RESISTOR >			
S718		1 SWITCH, TACTILE (MUSIC	SCAN)							
S719		1 SWITCH, TACTILE (1)			R81	1-249-414-11		560 5%	1/4W F	
S720		1 SWITCH, TACTILE (6)			R82	1-247-818-11		300 5%	1/ 4W	
S721	1-554-303-2	1 SWITCH, TACTILE (11)			R83	1-247-834-11		1. 3K 5%	1/4W	
6700	1 554 202 0	CWITCH TACTUR (0)			R84	1-249-417-11		1K 5%	1/4W F	
S723 S724		1 SWITCH, TACTILE (2) 1 SWITCH, TACTILE (7)			R85	1-249-408-11	CARBON	180 5%	1/4W F	
S724 S725		SWITCH, TACTILE (12)					/ CWITCH \			
S723		SWITCH, TACTILE (12)					< SWITCH >			
S728		SWITCH, TACTILE (8)			S81	1-571-059-11	SWITCH, PUSH ((1 KEV) (CTOD D	ET)	
5720	1 001 000 2	DWITCH, INCITED (0)			S82		SWITCH, LEAF (LI)	
S731	1-554-303-2	SWITCH, TACTILE (4)			S84		SWITCH, LEAF (
S732		SWITCH, TACTILE (9)			S85		SWITCH, LEAF (
S734		SWITCH, TACTILE (5)			S86		SWITCH, LEAF (
S736		SWITCH, TACTILE (10)					******		******	***
S739		SWITCH, TACTILE (>12)								
		, , ,			*	1-632-202-11	LOADING BOARD			
S740	1-554-303-21	SWITCH, TACTILE (CHECK)	1				*****			
S741	1-554-303-21	SWITCH, TACTILE (CLEAR)	ı							
S742	1-554-303-21	SWITCH, TACTILE (A. SPA	ACE/A. CUE)				< CONNECTOR >			
		< VIBRATOR >			* CN301	1-564-707-11	PIN, CONNECTOR	(SMALL TYPE)	5P	
X701	1-577-082-11	VIBRATOR, CERAMIC 4MHz					< MOTOR >			
******	******	*******	*****	****						
					M201	X-4604-363-A	MOTOR (L) ASSY	•		
*	1-638-020-11	LEAF SW-A BOARD								
		******					< SWITCH >			
		< CONNECTOR >			S271	1-572-086-11	•			
. GND04	4 500 050 44	CACLER CALLERAND IN			S272	1-572-086-11	·			
* UNP81	1-208-820-11	SOCKET, CONNECTOR 7P			*****	******	*******	*****	*******	***
		< IC >			*	A-4356-643-A	TC MAIN BOARD,	COMDIETE (D2	00.AED E	
		(10)				n 4000 040 h	IT, EE, EA, AUS, M	•		
IC81	8-719-710-03	DIODE NJL5165K-B					EE, MY, SP, CIS, A		, D, 11, DA	•
		DIODE NODOLOGIE					*******	-	*******	****
		< RESISTOR >			*	A-4356-654-A	TC MAIN BOARD,	COMPLETE		
							(D209:UK, G/D309			
R84	1-249-417-11	CARBON 1K 5	% 1/4W I	F			******	*****		
R85	1-249-408-11	CARBON 180 5	% 1/4W F	7						
					*	4-942-204-01	PLATE, GROUND			
		< SWITCH >								
							< CAPACITOR >			
		SWITCH, PUSH (1 KEY) (ST	,		a.a-	4 400 47 -	160 A D			
		SWITCH, LEAF (TYPE II DET)		C122	1-130-479-00		0.0047uF		60V
S86		SWITCH, LEAF (HALF DET)			C123	1-162-291-31				iOV
*****	******	********	******	***	C126	1-136-165-00				0V
	1 000 000 11	LEAE OW D DOADS			C127	1-126-791-11				5V
*	1-038-020-11	LEAF SW-B BOARD *******			C128	1-126-301-11	CLEU1	1uF	20% 5	0V
		*******			C120	1_124_465_00	EI ECT	0 47E	20% -	017
	0_710_710_00	DIONE WHETEEN D			C129 C130	1-124-465-00 1-126-791-11				0V 5V
	0-119-110-03	DIODE NJL5165K-B			C130	1-120-791-11		10ur 0. 1uF		ογ 0
		< CONNECTOR >				1-126-791-11				υ γ 5γ
		COMMEDIUM /				1-126-301-11				0V
* CNP81	1-568-850-11	SOCKET, CONNECTOR 7P			A1-11	- 150 OOI II	PPPA1	Tui	2070 J	U I
	**				C142	1-126-791-11	ELECT	10uF	20% 3	5V
						1-161-375-00				0V
					C222	1-130-479-00	MYLAR			0V
					C223	1-162-291-31	CERAMIC	560PF	10% 5	0V
					C226	1-136-165-00	FILM	0. 1uF	5% 5	0V

TC MAIN

Ref. No.	Part No.	Description		Re	mark	Ref. No.	Part No.	Description	l 		Rei	mark
C227	1-126-791-11	FLECT	10uF	20%	35V	D302	8-719-987-63	DIODE 1N414	18M			
C228	1-126-301-11		1uF	20%	50V	D303	8-719-987-63					
C229	1-124-465-00		0. 47uF	20%	50V	D304	8-719-987-63	DIODE 1N414	18M			
C230	1-126-791-11		10uF	20%	35V	D305	8-719-200-82	DIODE 11ES2	2			
C231	1-161-377-00		0. 0047uF	20%	16V	D306	8-719-200-82					
C232	1-161-375-00	CERAMIC	0. 0022uF	20%	50V	D401	8-719-987-63					
C233	1-124-465-00	ELECT	0. 47uF	20%	50V	D402	8-719-987-63					
C241	1-126-301-11	ELECT	1uF	20%	50V	D403	8-719-987-63	DIODE 1N414	18M			
C242	1-126-791-11	ELECT	10uF	20%	35V							
C243	1-161-375-00	CERAMIC	0. 0022uF	20%	50V			< IC >				
C301	1-126-791-11		10uF	20%	35V		8-759-098-75					
C302	1-126-926-11		1000uF	20%	10V	t .	8-759-071-48					
C303	1-123-382-00		3. 3uF	20%	100V		8-759-076-36					
C304	1-164-159-11		0. 1uF		50V	1	8-759-635-63		SF.			
C305	1-164-159-11	CERAMIC	0. 1uF		50V	10403	8-759-207-05	10 1A/2/2P				
C306	1-126-933-11		100uF	20%	16V			< TRANSISTO	OR >			
C307	1-126-933-11		100uF	20%	16V	0101	8-729-119-78	TDANCICTOD	29C2785_HFI	,	•	
C308	1-126-926-11		1000uF	20%	10V	Q101	8-729-119-78					
C309	1-126-926-11		1000uF	20%	10V	Q201	8-729-119-78					
C310	1-126-791-11	ELECT	10uF	20%	35V	Q301 Q400	8-729-900-65					
2044	4 400 704 44	ri ram	10. F	200	35V	Q400 Q401	8-729-900-65					
C311	1-126-791-11		10uF	20%		Q401	0 723 300 03	HOLOLOHAIL	עותוקאנט			
C312	1-126-949-11		220uF	20%	35V 10V	Q402	8-729-900-65	TDANC I CTOR	DTA1AAFQ			
C314	1-124-584-00		100uF 1000uF	20% 20%	10V 10V	Q402 Q403	8-729-900-65					
C315	1-126-926-11		1000ur 100uF	20%	16V	Q403	8-729-900-65					
C316	1-126-933-11	ELECI	Toour	20/0	104	Q404 Q405	8-729-900-65					
C317	1-126-933-11	FIECT	100uF	20%	16V	Q405	8-729-900-89					
C317	1-126-933-11		100uF	20%	16V	Q-100	0 723 300 03	Hemororon	710111110			
C456	1-162-290-31		470PF	10%	50V	Q407	8-729-900-89	TRANSISTOR	DTC144ES			
C457	1-162-290-31		470PF	10%	50V	Q408	8-729-900-65					
C458	1-164-159-11		0. 1uF	20.0	50V	Q409	8-729-119-78			3		
0100	1 101 100 11	· · · · · · · · · · · · · · · · · · ·				Q410	8-729-119-78	TRANSISTOR	2SC2785-HF	3		
C459	1-164-159-11	CERAMIC	0. 1uF		50V	Q411	8-729-801-84	TRANSISTOR	2SB1013-4			
		< CONNECTOR >				Q412	8-729-801-84	TRANSISTOR	2SB1013-4			
						Q413	8-729-900-65	TRANSISTOR	DTA144ES			
* CN101	1-564-523-11	PLUG, CONNECTO	R 8P			Q414	8-729-900-89	TRANSISTOR	DTC144ES			
		PLUG, CONNECTO										
* CN302	1-564-506-11	PLUG, CONNECTO	R 3P					< RESISTOR	>			
* CN303	1-564-506-11	PLUG, CONNECTO	R 3P									
* CN401	1-564-517-11	PLUG, CONNECTO	R 2P			R120	1-215-451-00		18K	1%	1/6W	
						R121	1-249-430-11		12K	5%	1/4W	
		CONNECTOR, BOA				R122	1-249-431-11		15K	5%	1/4W	
CN403	1-580-783-11	CONNECTOR, BOA	RD TO BOARD			R123	1-249-425-11		4. 7K		1/4W	
		CONNECTOR, BOA				R124	1-249-428-11	CARBON	8. 2K	5%	1/4W	F
		SOCKET, CONNEC						a i BBC''	4011	-e-	4 /400	
CN406	1-568-437-11	SOCKET, CONNEC	TOR 7P			R125	1-249-429-11		10K	5% =~	1/4W	
			man ar			R127	1-249-429-11		10K	5% =~	1/4W	
		SOCKET, CONNEC				R130	1-249-429-11		10K	5% ==	1/4₩	С
CN408	1-568-444-11	SOCKET, CONNEC	TOR 13P			R131	1-249-425-11		4. 7K		1/4W	L
		< DIODE >				R132	1-249-429-11	NUDARO	10K	5%	1/4W	
						R133	1-249-429-11	CARBON	10K	5%	1/4W	
D301	8-719-000-78	B DIODE UZL-7L2				R135	1-247-864-11	CARBON	24K	5%	1/4W	

TC MAIN TC PANEL (A)

Ref. No.	Part No.	Description			Re	emark	Ref. No.	Part No.	Description			Re	emark
R136	1-249-429-11	CARBON	10K	5%	1/4W		R425	 1-249-417-11	CARRON	1K	5%	1/4W	F
R137	1-249-429-11		10K	5%	1/4W		R426	1-249-417-11		1K	5%	1/4W	
R138	1-249-429-11		10K	5%	1/4W		R427	1-249-417-11		1K	5%	1/4W	
R141	1-249-421-11		2. 2K		1/4W	F	R431	1-249-429-11		10K	5%	1/4W	r
R142	1-249-428-11		8. 2K		1/4W		R432	1-249-425-11		680	5% 5%	1/4W	С
****	1 210 120 11	OMEDON	0. ZII	370	1/ 111	•	11452	1 243 413 11	VARDON	UOU	JA	1/411	Г
R143	1-247-840-00	CARBON	2. 4K	5%	1/4W		R433	1-249-429-11	CARBON	10K	5%	1/4W	
R144	1-249-433-11	CARBON	22K	5%	1/4W		R434	1-249-415-11	CARBON	680	5%	1/4W	F
R145	1-249-417-11	CARBON	1K	5%	1/4W	F	R435	1-249-429-11	CARBON	10K	5%	1/4W	
R221	1-249-430-11	CARBON	12K	5%	1/4W		R451	1-249-425-11		4. 7K		1/4W	F
R222	1-249-431-11	CARBON	15K	5%	1/4W		R452	1-249-435-11		33K	5%	1/4W	•
Door	1 040 405 44	GADDON	4 50			_							
R223	1-249-425-11		4. 7K		1/4W		R453	1-249-437-11		47K	5%	1/4W	
R224	1-249-428-11		8. 2K		1/4W	F	R454	1-247-872-11		51K	5%	1/4W	
R225	1-247-882-11		130K		1/4W		R455	1-247-862-11		20K	5%	1/4W	
R226	1-247-866-11		30K	5%	1/4W		R456	1-247-866-11	CARBON	30K	5%	1/4W	
R229	1-249-429-11	CARBON	10K	5%	1/4W		R457	1-247-872-11	CARBON	51K	5%	1/4W	
R230	1-249-432-11	CARBON	18K	5%	1/4W		R458	1-249-405-11	CARRON	100	5%	1/4W	F
R231	1-247-885-00		180K		1/4W		R459	1-249-381-11		100	5%	1/4W	
R241	1-249-421-11		2. 2K		1/4W	F	R460	1-249-381-11		1			
R242	1-249-428-11		8. 2K		1/4W		ľ			_	5%	1/4W	
R243						Г	R461	1-249-425-11		4. 7K		1/4W	ľ
NZ43	1-247-840-00	CARDUN	2. 4K	5%	1/4W		R462	1-249-435-11	CARBON	33K	5%	1/4W	
R244	1-249-433-11	CARBON	22K	5%	1/4W		R463	1-249-437-11	CARBON	47K	5%	1/4W	
R245	1-249-417-11	CARBON	1K	5%	1/4W	F	R464	1-247-872-11		51K	5%	1/4W	
R300	1-249-405-11		100	5%	1/4W		R465	1-247-862-11		20K	5%	1/4W	
R301	1-249-421-11		2. 2K		1/4W		R466	1-247-866-11		30K	5%	1/4W	
R302	1-249-405-11		100	5%	1/4W		R467	1-247-872-11		51K	5%	1/4W	
B 000	4 040 400 44	a. ppay				_							
R303	1-249-422-11		2. 7K		1/4W		R468	1-249-405-11		100	5%	1/4W	
R352	1-249-393-11		10	5%	1/4W		R469	1-249-381-11		1	5%	1/4W	F
R400	1-249-389-11		4. 7	5%	1/4W	F	R470	1-249-381-11	CARBON	1	5%	1/4W	F
R401	1-249-429-11		10K	5%	1/4W		R471	1-249-429-11		10K	5%	1/4W	
R402	1-247-903-00	CARBON	1M	5%	1/4W		R472	1-249-425-11	CARBON	4. 7K	5%	1/4W	F
R403	1-247-895-00	CARRON	470K	5%	1/4W		R473	1-249-434-11	CADRON	27K	5%	1/4W	
R404	1-247-895-00		470K		1/4W		R474	1-249-429-11		10K	5%		
R405	1-249-408-11		180	5%	1/4W	Г		1-249-425-11				1/4W	г
R406	1-249-408-11		180	5%	1/4W		R476			4. 7K		1/4W	r
R407	1-249-410-11				1/4W		R477	1-249-434-11	CARBON	27K	5%	1/4W	
N407	1-245-410-11	UANDŲN	270	5%	1/4₩	r			< VARIABLE RES	ICTOD \			
R408	1-247-812-11	CARBON	160	5%	1/4W				AUNTABLE UES	TOTOR /			
R409	1-247-812-11		160	5%	1/4W		D171.01	1_220_400 11	DEG YDI GADD	ON 1017			
R410	1-247-816-11	•						1-230-496-11					
R410			240	5% = 0	1/4W		KVZU1	1-230-496-11	nes, adj, carb	ON TOK			
R411	1-247-812-11 (1-249-411-11 (160 330	5% 5%	1/4W 1/4W				/ VIDDATOD \				
N-11L	1 410 111 11 (NATION.	JJU	J <i>1</i> 0	1/411				< VIBRATOR >				
R413	1-249-429-11 (10K	5%	1/4W		X401	1-577-358-21	VIBRATOR, CERA	MIC			
R414	1-249-429-11 (CARBON	10K	5%	1/4W		*****	******	******	******	*****	*****	****
R415	1-249-421-11 (CARBON	2. 2K	5%	1/4W	F							
R416	1-249-421-11 (CARBON		5%	1/4W		*	1-646-887-11	TC PANEL (A) B	OARD			
R417	1-249-437-11 (CARBON	47K	5%	1/4W				******				
D410	1 040 400 14 7	ADDON	107	Γeν	4 /400				/ gavnin				
R418	1-249-429-11 (5%	1/4W	_		•	CONNECTOR >				
R420	1-249-425-11 (4. 7K		1/4W								
R422	1-249-425-11 (4. 7K	5%	1/4W	F	CN451	1-568-442-11	SOCKET, CONNEC	TOR 9P			
R423	1-249-429-11 (CARBON	10K	5%	1/4W								

TC PANEL (A) TC PANEL (B)

Ref. No.	Part No.	Description			Rei	mark	Ref. No.	Part No.	Description			Re	emark
		(NIONE)					D400	1 240 420 11	CADDON	1. 8K	E0v	 1/4W	
		< DIODE >						1-249-420-11 1-249-424-11		3. 9K		1/4W	
D481	8-719-313-65	DIODE SEL2410E-T	TH10										
D482	8-719-301-49								< SWITCH >				
D483	8-719-301-49	LED SEL2810A											
							S451		SWITCH, TACTILE				
		< RESISTOR >					S452		SWITCH, TACTILE		E)		
							S453		SWITCH, TACTILE				
R481	1-249-407-11	CARBON	150	5%	1/4W		S454		SWITCH, TACTILE	` '			
R482	1-249-409-11	CARBON	220	5%	1/4W		S455	1-554-303-21	SWITCH, TACTILE	(REC	MUTE)		
R483	1-249-415-11		680	5%	1/4W				auranari miantin	(44)			
	1-249-417-11		1K	5%	1/4W	F	S456		SWITCH, TACTILE	1 1			
R485	1-249-426-11	CARBON	5. 6K	5%	1/4W		S457		SWITCH, TACTILE				
				=0.	4 (400		S458		SWITCH, TACTILE			DEED III	(CII)
R486	1-249-430-11	CARBON	12K	5%	1/4W		S459		SWITCH, TACTILE				
		/ AWITMAIL \					S460	1-554-303-21	SWITCH, TACTILE	(שטטע)	DING S	PEED NO	/nmal/
		< SWITCH >					CACI	1 554 202 21	CWITCU TACTILE	\p300	n) (cn)	CVNCHDO	1)
0.404	1 554 000 01	CWITCH TACTIF	(OTOD)	`					SWITCH, TACTILE ******				
		SWITCH, TACTILE)			*****	*****	******	*****			
S402		SWITCH, TACTILE SWITCH, TACTILE							MISCELLANEOUS				
S403		SWITCH, TACTILE							*****				
S404 S405		SWITCH, TACTILE											
3403	1-334-303 21	Switch, Incline	()					1-575-001-11	WIRE, FLAT TYPE	(12 (CORE)		
S406	1-572-269-11	SWITCH, SLIDE (OOLBY	NR)					PC BOARD, MOTOR				
S407		SWITCH, SLIDE (I		-	DE)				WIRE (FLAT TYPE				
		*******				****	A		DEVICE, OPTICAL				
									·				
*	1-646-888-11	TC PANEL (B) BOA	ARD				56	1-751-209-11	WIRE (FLAT TYPE) (9 (CORE)		
		******					64	1-590-574-11	WIRE, FLAT TYPE	(7 CC	ORE)		
							65	1-590-485-11	WIRE, FLAT TYPE	(7 CC	ORE)		
		< connector $>$					69	1-690-729-11	WIRE, FLAT TYPE	(27 (CORE)		
		CONTENT CONTENT	OD 40D					4 000 500 04	MIDE FLAT TUDE	/10 /	none\ /	D000 - A1	ua)
CN452	1-568-443-11	SOCKET, CONNECTO	OK 13P				71		WIRE, FLAT TYPE				
		(DIODE)					71	1-751-210-11	WIRE (FLAT TYPE				J309:
		< DIODE >							AEP, UK, E, G, IT, E	E, EA, I	nı, or,	(13)	
D491	9_710_301_37	LED SEL2210S-0	מח				* 161	1-452-538-11					
D491 D492	8-719-301-37		עט						DECK ASSY, HEAD				
D492 D493		DIODE SEL2410E-	TH10						DECK ASSY, HEAD	(DEC	KB)		
D494	8-719-301-49		11110				i i	2 8-759-604-95					
D495	8-719-301-49								BASE (OUTSERT)		(SPIND	LE MOT	OR)
<i>p</i> 100	0 110 001 10	000001011					M901		MOTOR ASSY (CAR				
D496	8-719-301-37	LED SEL2210S-0	CD (D3	09)			M902		MOTOR ASSY (REI				
D497	8-719-301-37			•			Q302		TRANSISTOR 2SD2				
D498	8-719-301-37	LED SEL2210S-	CD				*****	*****	******	*****	*****	*****	*****
								ACCECCODIE	S & PACKING MATE	DIAIC			
		< RESISTOR >							.3 & FAUNIM MAIL				
								*****	********	*****			
R490	1-249-407-11		150	5%	1/4W		* 10	3-703-713-41	STICKER, SONY S	YMROL	(10)		
R491	1-249-409-11		220	5%	1/4W	F	* 10	0 100 110 41	(D209:AUS/D309:				
R492	1-249-411-11		330	5%	1/4W		* 5	4-941-548-01	LABEL, CLASS 1	J., 1101	-,		
R493	1-249-413-11		470	5%	1/4W	F	*		INDIVIDUAL CART	ON (D	209:AF	P, IT)	
R494	1-249-411-11	CARBON	330	5%	1/4W		*		CUSHION (D209:			,	
D40°	1 040 440 44	CADDON	470	E0/	1 //101	E	*****		*******			*****	*****
R495	1-249-413-11		470 690	5% 5%	1/4W								
R496	1-249-415-11		680 1K	5% 5%	1/4W 1/4W								
R497	1-249-417-11	OMRDON	TIV	J/0	1/411	I.	ı						

Ref. No. Part No. Description Remark

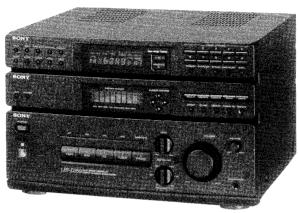
******* HARDWARE LIST ********

- 7-685-646-79 SCREW +BVTP 3X8 TYPE2 N-S 7-621-775-10 SCREW +B 2.6X4 #1
- #2
- #6 7-621-255-15 SCREW +P 2X3
- #7 7-621-775-00 SCREW +B 2.6X3
- #8 7-627-556-08 SCREW +P 2.6X2.8

HTC-D209/D309

STR-A37/D309/D359

SERVICE MANUAL



AEP Model STR-D309/D359 UK Model STR-D359 Australian Model E Model PX Model

This set is the tuner and amplifier

section in

STR-A37 : LBT-A37CDM STR-D309: LBT-D309CD

STR-D359: LBT-D359CD

Photo is STR-D359

SPECIFICATIONS

• STR-A37

Tuner

System

FM stereo

10.7 MHz

FM/AM superheterodyne tuner

FM tuner section

Tuning range Antenna

87.5 to 108 MHz 75 ohms unbalanced

300 ohms balanced

Intermediate frequency

AM tuner section

Tuning range

531 to 1,602 kHz (at 9 kHz step) 530 to 1,710 kHz (at 10 kHz step)

AM loop antenna

External antenna terminal

450 kHz

Intermediate frequency

Antenna

Peak music power output 700 W (6 ohms, 4 speakers driven)

Continuous RMS power output

55 W + 55 W (6 ohms, at 1 kHz, 5%

- Input	Jack type	Sensitivity	Impedance
VIDEO IN	Phono	300 mV	47 kohms
PHONO IN	Phono	3 mV	47 kohms
MIC	Phone	1 mV	10 kilohms

Output	Jack type	Impedance
SURROUND SPEAKER	Phono	Accepts speakers of 8 – 16 ohms
HEADPHONES	Stereophone	Accepts headphones of 8 ohms or more

Frequency response

VIDEO: 15 Hz to 50 kHz $^{+0}_{-3}$ dB

Power requirements

110 - 120 V/220 - 240 V AC, adjustable

with the VOLTAGE SELECTOR,

50/60 Hz 155 W

Power consumption

Mass

Approx. 7.3 kg

Approx. 355 $\stackrel{-}{ imes}$ 225 imes 330 mm Dimensions (w/h/d, including projections)

STR-D309/D359

Tuner

System

FM stereo

FM/AM superheterodyne tuner

65.0 to 74.0MHz (East European model) FM tuner section

87.5 to 108 MHz Tuning range 75 ohms unbalanced Antenna

10.7 MHz Intermediate frequency

AM tuner section

Tuning range

Antenna

(German model)

531 to 1,602 kHz (Italian model) 522 to 1,611 kHz (Other models)

MW: 531 to 1,602 kHz LW: 153 to 279 kHz AM loop antenna

External antenna terminal

*450 kHz Intermediate frequency

Continued on next page —



STEREO FM-AM RECEIVER SONY

Amplifier

DIN power output

50 W + 50 W (6 ohms, at 1 kHz)

Continuous RMS power output

60 W + 60 W (6 ohms, at 1 kHz, 5%

THD)

Music power output

90 W + 90 W (6 ohms)

Input	Jack type	Sensitivity	Impedance
VIDEO IN	Phono	300 mV	47 kohms
PHONO IN	Phono	3 mV	47 kohms

Output	Jack type	Impedance
SURROUND SPEAKER	Phono	Accepts speakers of 16 ohms
HEADPHONES	Stereophone	Accepts headphones of 8 ohms or more

Frequency response

VIDEO: 15 Hz to 50 kHz $^{+0}_{-3}$ dB

Power requirements

220 - 230 V AC, 50/60 Hz

Power consumption

150 W

Mass

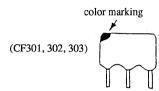
Approx. 7.3 kg

Dimensions

Approx. $355 \times 225 \times 330$ mm (w/h/d, including projections)

Note on Ceramic Filter (CF301, ▲302, 303) Replacement. (PANEL BOARD : D609, D610)

This set employs two ceramic filters (CF301, \$\triangle 302, 303) which should have the same color marking to identify their center frequency. therefore FM IF offset adjustment by (*A, *B) connection is necessary to match the center frequency of the ceramic filters used with FM intermediate frequency.



▲CF302: G, IT model

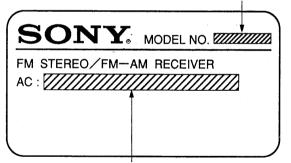
O:short

X :open

				*
	Ceramic filter	Conn	ection	FM intermediate
Color mark			*B (D609)	frequency (MHz)
White	10.750	х	0	10.750
Red	10.700	×	х	10.700
Black	10.650	0	х	10.650

MODEL IDENTIFICATION

— Model Number Portion — STR-A37, D309, D359



AEP, G, IT, EE, CIS Model: 220-230V~50/60Hz 150W

UK Model: 240V~50Hz

E, AUS, PX Model: 110-120V/220-240V~50/60Hz 155W

Note:

G model : Germany model IT model : Italian model

EE model : East European model AUS model : Australian model

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK A OR DOTTED LINE WITH MARK ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

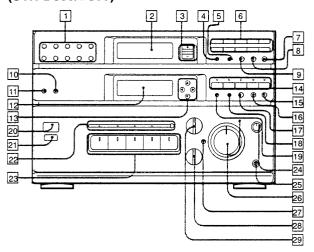
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SECTION 1 **GENERAL**

LOCATION OF CONTROLS

(STR-D309/D359)



Tuner

- 1 Buttons for setting the clock and timer
- 2 Display window
- 3 DUAL MODE TUNING +/- buttons
- 4 MEMORY button
- CHARACTER button 5 CHARACTER but
 6 Numeric buttons
 7 SHIFT button

- BAND SELECT button
- 9 ST/MUTE button

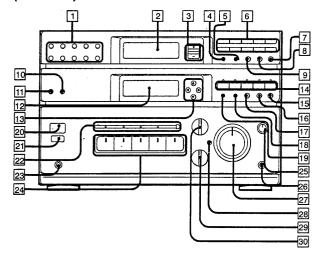
Graphic Equalizer

- 10 REVERSE button
- 11 FLAT button
- [12] Display window
- 13 CURSOR CONTROL buttons
- [14] Preset/numeric buttons and indicators
- 15 DISPLAY button
- 16 PERSONAL FILE button and indicator
- [17] MEMORY button and indicator
- B EQ REC (equalizer recording) button and indicator
- [9] EFFECT button and indicator

Amplifier

- SYSTEM POWER button
- 21 Remote control sensor
- 2 SURROUND button and indicator
- [2] Function selectors and indicators (VIDEO/TAPE/CD/TUNER/PHONO)
- BALANCE control
- 図 BALANCE control 函 HEADPHONES jack
- 7 VOLUME control and indicator
- DBS ON/OFF (Dynamic Bass System) button and indicator
- 28 DBS FREQUENCY control
- 29 DBS LEVEL control

(STR-A37)



Tuner

- 1 Buttons for setting the clock and timer
- 2 Display window
- 3 DUAL MODE TUNING +/- buttons
- 4 MEMORY button
- 5 CHARACTER button
 6 Numeric buttons
- 7 SHIFT button
- 8 BAND SELECT button
- 9 ST/MUTE button

Graphic Equalizer

- 10 REVERSE button
- 11 FLAT button
- 12 Display window
 13 CURSOR CONTROL buttons
- 14 Preset/numeric buttons and indicators
- 15 DISPLAY button
- 16 PERSONAL FILE button and indicator
- 17 MEMORY button and indicator
- 18 EQ REC (equalizer recording) button and indicator
- 19 EFFECT button and indicator

Amplifier

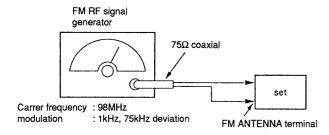
- SYSTEM POWER button
 Remote control sensor
- | SURROUND button and indicator |
 | MICROPHONE jacks |
- 24 Function selectors and indicators (VIDEO/TAPE/CD/TUNER/PHONO)
- BALANCE control
- 図 HEADPHONES jack
 図 VOLUME control and indicator
- DBS ON/OFF (Dynamic Bass System) button and indicator
- 2 DBS FREQUENCY control
- DBS LEVEL control

SECTION 2 ADJUSTMENTS

Note: As a front-end (FE301) is difficult to repair if faulty, replace it with new one.

FM SECTION

Setting:



TUNER OUT CHECK POINT

SPEAKER out receive 98MHz (EXCEPT EE), 70MHz (EE) 60dB μ (1mV) and set the Speaker out to 10dBs by VOLUME.

Speaker load: 6Ω both CH

FM NULL Adjustment

Procedure:

- 1. Supply a 60dB μ (1mV) 98MHz (EXCEPT EE), 70MHz (EE) signal from the ANTENNA terminal.
- 2. Tune the set to 98MHz. (EXCEPT EE), 70MHz (EE)
- 3. Adjust T301 for 0V reading on the measurement point.

FM Tuned Level Adjustment

Band: FM

ST/MUTE SW: OFF

Procedure:

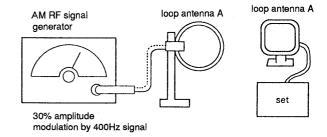
- Supply a 20±4dBμ (EE), 25±4dBμ (EXCEPT EE) 98MHz (EXCEPTEE), 70MHz (EE) signal from the ANTENNA terminal.
- 2. Tune the set to 98MHz. (EXCEPT EE), 70MHz (EE)
- 3. Adjust RV302 so that the Voltage of IC301 22 pin is set to low.

Adjustment Location: ST MAIN BOARD

 Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by trimmer capacitors.

AM SECTION

Setting:



AM Tuned Level Adjustment

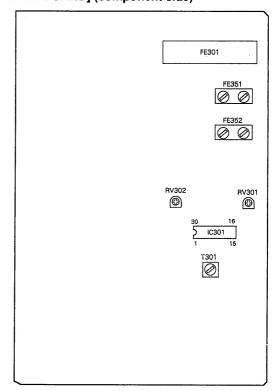
Band: AM

Procedure:

- 1. Set loop antenna input level to $94dB\mu/m$, 1050kHz and no signal tuned light should not on.
- 2. Ture the set to 1050kHz
- 3. Adjust RV301 so that the Voltage of IC301 ② pin is set to low.

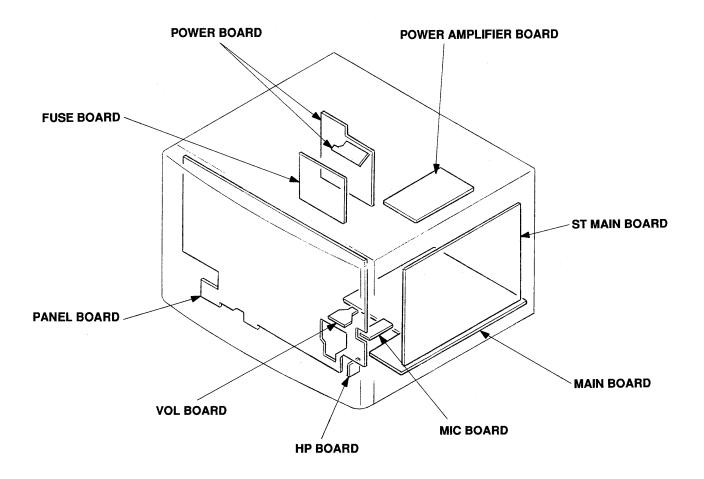
Adjustment Location: tuner board

[ST MAIN BOARD] (component side)

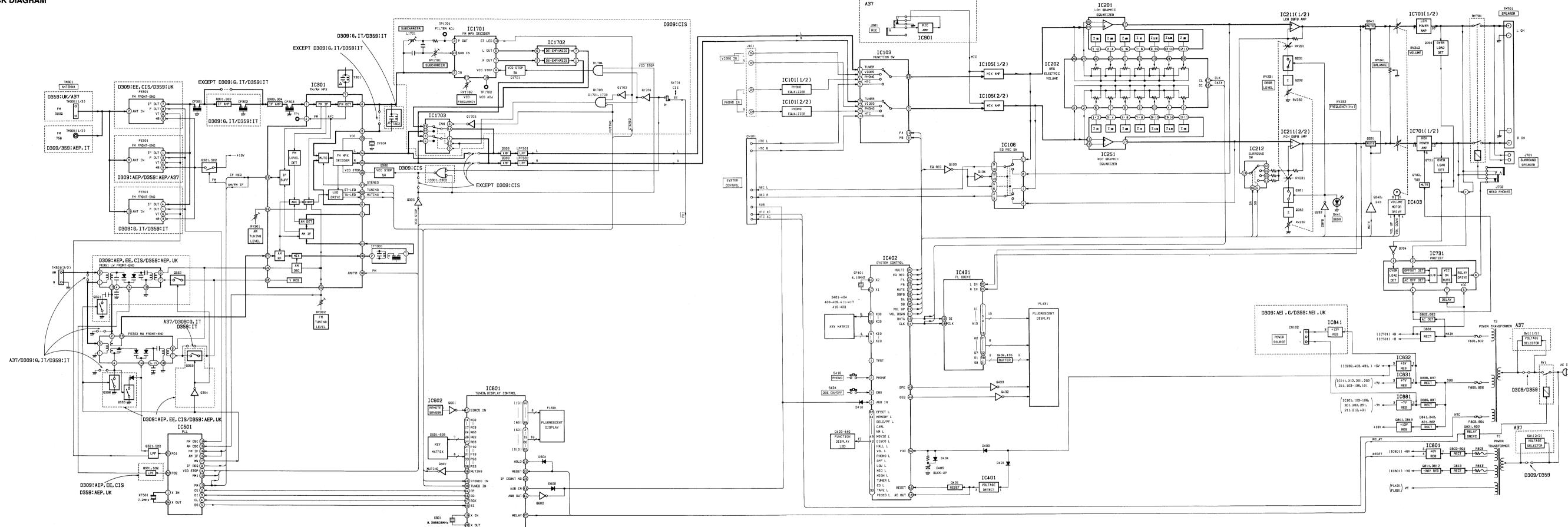


SECTION 3 DIAGRAMS

3-1. CIRCUIT BOARDS LOCATION



3-2. BLOCK DIAGRAM

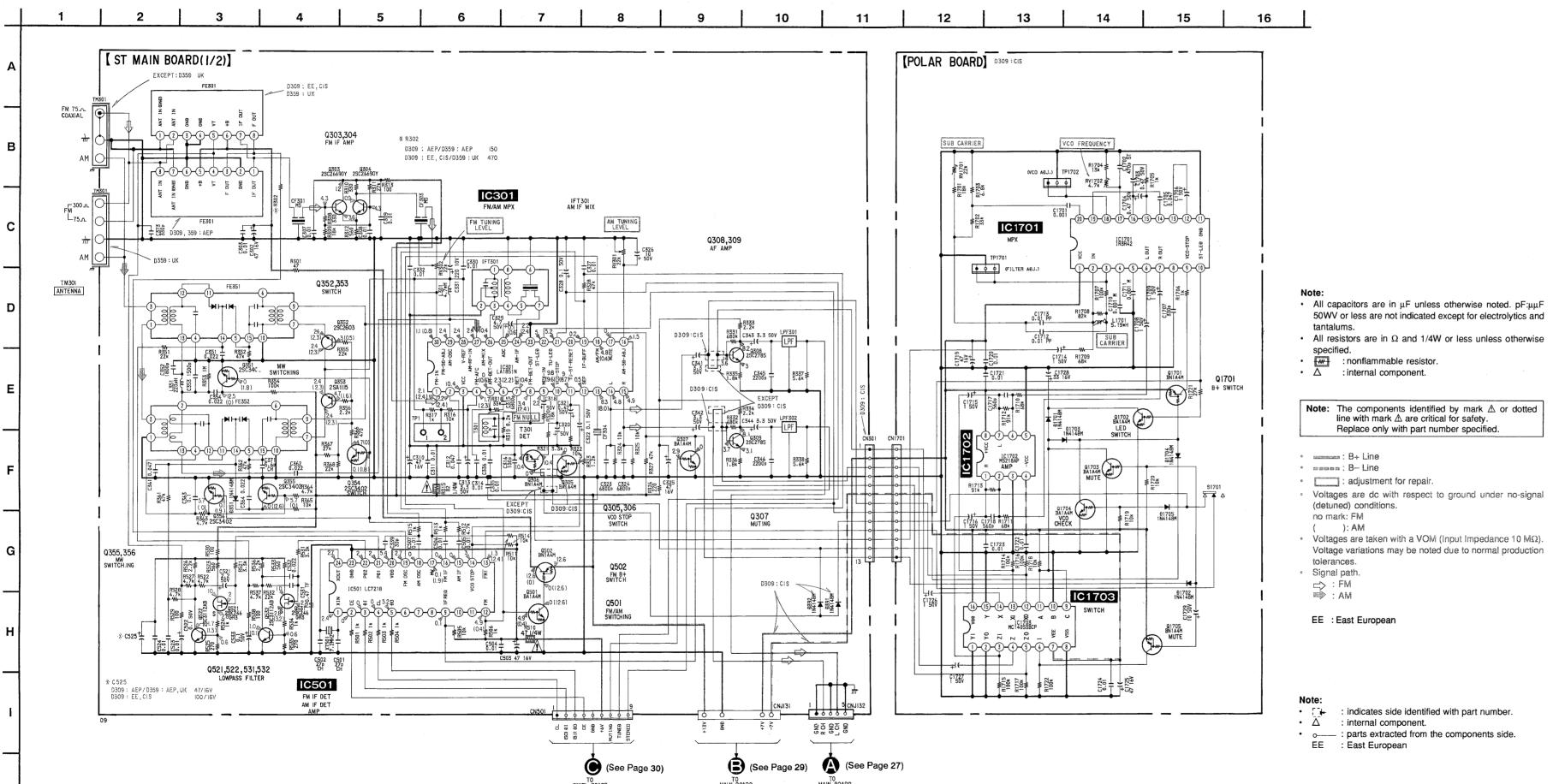


— 8 —

3-3. SCHEMATIC DIAGRAM

- TUNER SECTION (STR-D309 : AEP, EE, CIS) (STR-D359 : AEP, UK)
- See page 41, 42 and 43 for Semiconductor Lead Layouts and IC Block Diagrams.

— 11 -



-- 12 -

3-4. PRINTED WIRING BOARD

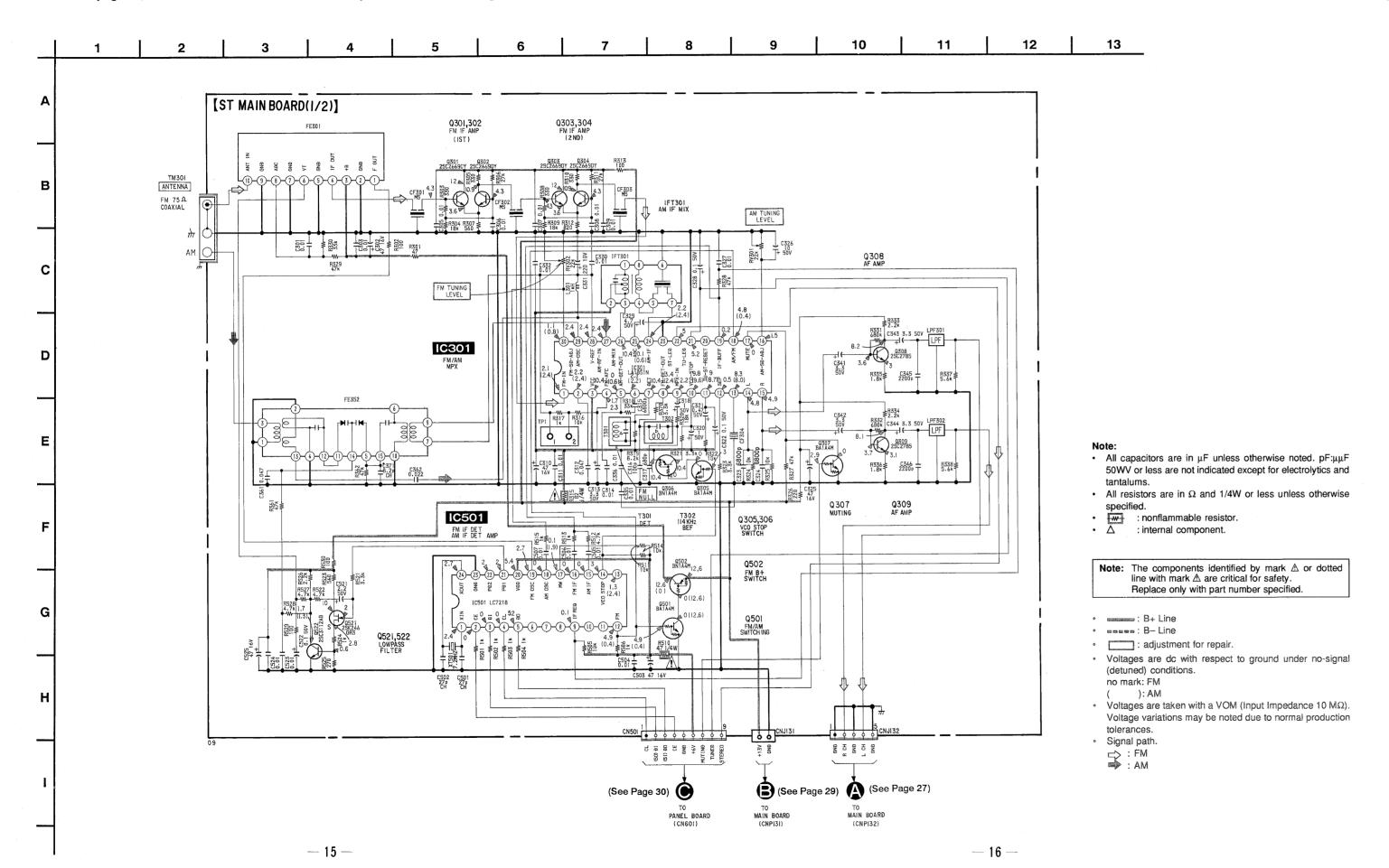
— 13 —

- TUNER SECTION (STR-D309 : AEP, EE, CIS) (STR-D359 : AEP, UK)

=MICON	NDUCTOR	RLOCATION			2	3	4	5	6		7	88	9
Ref. No.	Location	LOCATION			Ţ	ST MAIN BOARD]	м						
)351)391)392	D-3 I-4 H-4		Α			FM 750. O SOON COAXIAL EXCEPT D3599 UK	750 # 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	AM IM3G R529 AN R5276	0528 8 °-11-0 6522 A-0 °-11(-0 N-0 Q522	CORC			
C201 C202 C251 C301 C501	C-7 E-7 F-7 F-3 D-5		В			BE 50 (3 4) (3 6) (5	9390 9390	99,0359 9 1 822 A AGDEL S T RES	And	C206 C207 C209 C209 C209 C209 C211 C210 C213	(c20) sH	→ C218 → C219 → C216 → C217	·
0303 0304 0305 0306 0307 0308	D-4 D-4 H-4 H-4 G-5 H-5		С	(3) (4) (5) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4		135 Ho 9 W 9 135 FE35 FE35 FE35 FE35 FE35 FE35 FE35 FE	9 C303 C302 0 LF c 1 0352 9 0 0 1 1 0 2 8 0 0 8355 - M-p	C535	R535	2216 2216 2113 2119 2212 2119 2214 2214 2215 2215		02 	A
1309 1351 1352 1353 1354 1355	H-5 C-3 C-4 D-4 E-3 D-2		D	(3) (4) (5) (5) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7		51 p3 p4 95 p7	7FE352 1 0 10353 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	100 100 100 100 100 100 100 100 100 100		8000	DP201	20 70	Main Board (CMP132) (See Page 23)
356 501 502 521 522 531 532	D-3 E-2 E-3 B-6 A-6 C-6 B-6		E	· [-	IFT301 □® □□	0355 1365	0.354 - 11 - 2 - 366 R313 - 2 - 37 - 37 - 37 - 37 - 37 - 37 - 37	### ##################################	Red 6-w 6 C M 8 C	25 5 15 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	21 25 IC 202 0000000000000000 cp251		
002			F	© -		9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	W-8	1265 9- -6 C263 6- -7 C262 6- -7 C261 6- -7 C263 6- -7 C259	\$10 10 o	I—6 C266 41—6 C267 41—6 C268 41—6 C268 11—6 C262 Www R263	
			G		***************************************	103 6 10 02 20 20 20 03 10 0 10 0 10 0 10 0 10 0 10 0 10 0	01	PF302	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	258 0-11-0 0256 0-11-0 0257 0-11-0	200 6 6 64 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	% & R25(0 − VI)	
			Н		***************************************	R325 0-W-0 C-W-0 C324 0-H-0 EXCE R329 0-H-0 D309; CIS C323 0-H-0 EXCE R324 0-W-0 D309; CIS C323 0-H-0 C323 0-H	C316 0-1-0-0-316 PT 0-316 0-1-0-0-316 PT 0-356 0-1-0-0-316 C15 0-1-0-0-316 C25 0-1-0-0-316 C310	0308 0308 0308 0308 0309 0309	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0N201 10 0 0 07 20 0 06	34 (-9 0 6270 0 64 (-9 0	\$ CNJ3 CNJ3 S CNJ	B
					and the state of t	414-05/20/20/20/20/20/20/20/20/20/20/20/20/20/	To the state of th	5392 5399:018	D309:CI\$	2312762282		20 16	(See Page 2
						0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	D399	ccis			J	I-646-982-	PANEL BOARD (CN202) TO PANEL BOARD (CN202) (See Page 2
					09	TO POLAR	BOARD						<u>ت</u>

3-5. SCHEMATIC DIAGRAM

- TUNER SECTION (STR-D309 : G, IT) (STR-D359 : IT)
- See page 41, 42 and 43 for Semiconductor Lead Layouts and IC Block Diagrams.

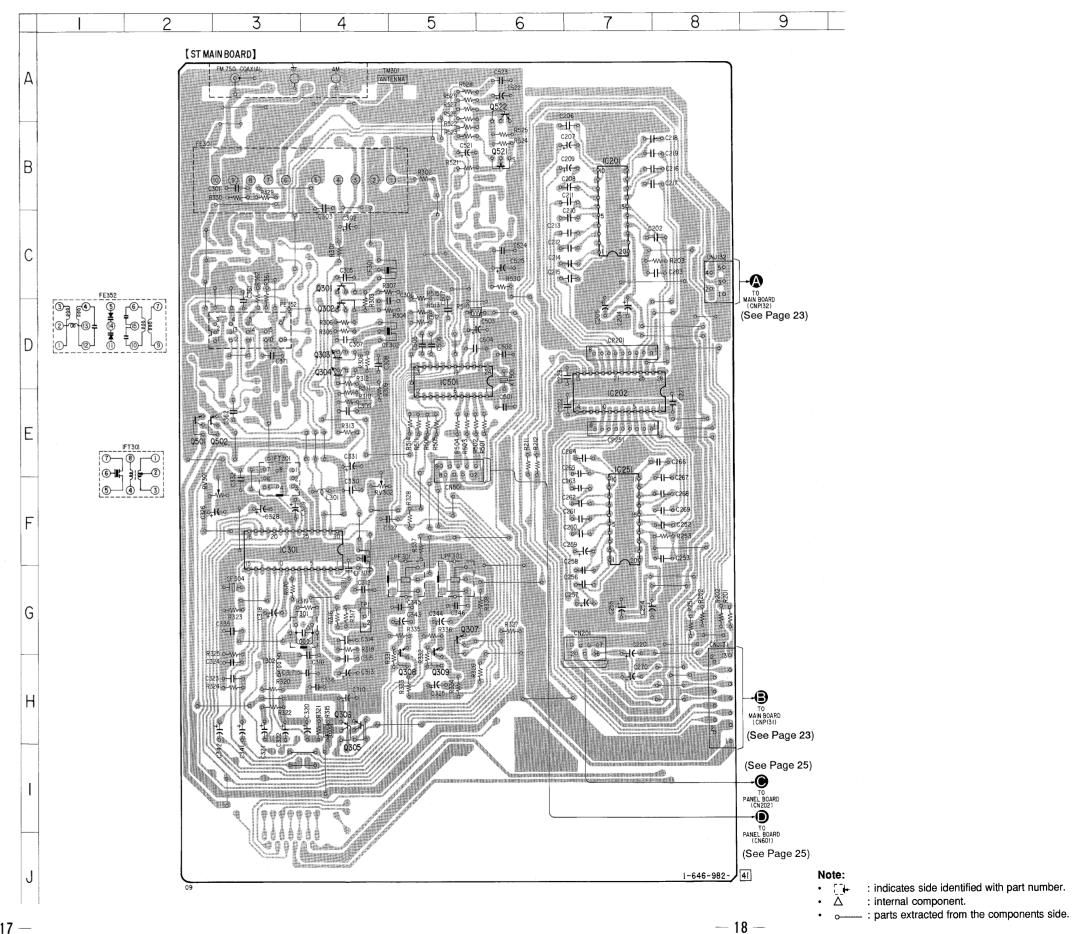


3-6. PRINTED WIRING BOARD

- TUNER SECTION (STR-D309 : G, IT) (STR-D359 : IT)
- · See page 6 for Circuit Boards Location.

SEMICONDUCTOR LOCATION

<u> </u>	10011
Ref. No.	Location
Ref. No. IC201 IC202 IC251 IC301 IC501 Q303 Q304 Q305 Q306	C-7 E-7 F-7 F-3 D-5 D-4 D-4 H-4 H-4
Q307 Q308 Q309 Q501 Q502 Q521 Q522	G-5 H-5 H-5 E-2 E-3 B-6 A-6



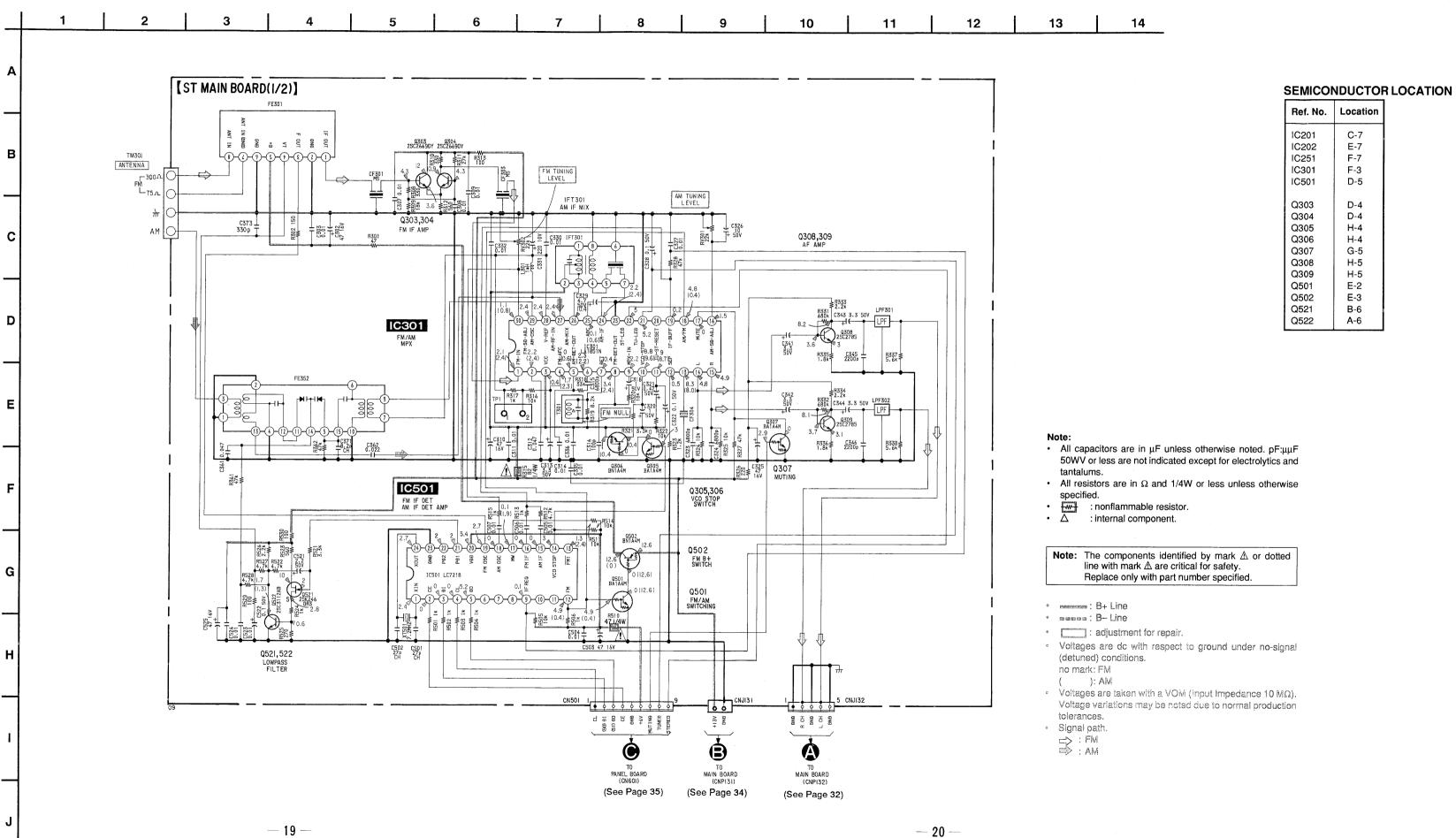
3-7. SCHEMATIC DIAGRAM

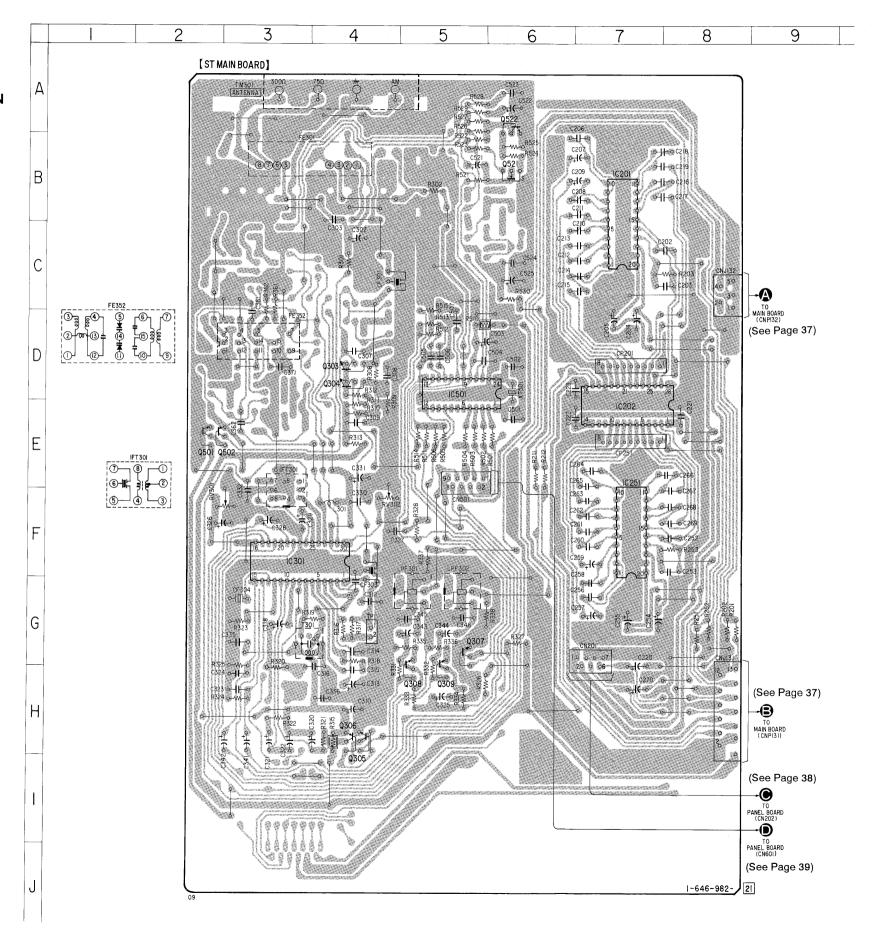
TUNER SECTION (STR-A37)

• See page 41, 42 and 43 for Semiconductor Lead Layouts and IC Block Diagrams.

3-8. PRINTED WIRING BOARD

- TUNER SECTION (STR-A37)
- See page 6 for Circuit Boards Location.





• o----: parts extracted from the components side.

SEMICONDUCTOR LOCATION

3-9.	PRINT	ED A

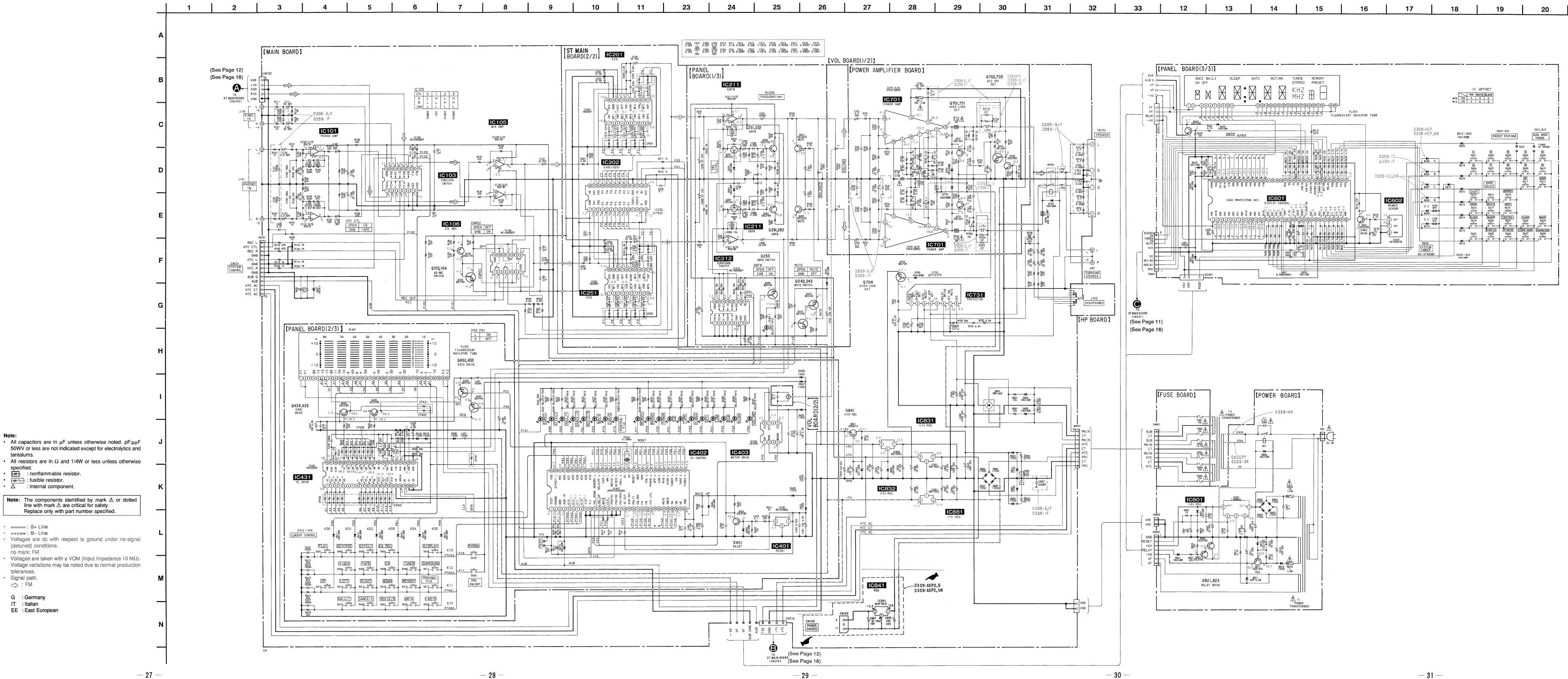
- PRINTED WIRING BOARD
 MAIN SECTION (STR-D309/D359)
 See page 6 for Circuit Boards Location.

SEMICONDUCTOR LOCATION									
Ref. No.	Location	Ref. No.	Location						
D231	H-17	D806	I-28						
D232	J-17	D811	H-27						
D281	H-18	D812	I-27						
D401	E-24	D813	K-27						
D402	E-25	D821	H-27						
D403	F-24	D831	E-7						
D404	E-24	D832	F-8						
D405	F-17	D836	G-6						
D406	F-19	D837	F-6						
D407	H-21	D838	G-5						
D410	E-25	D841	G-6						
D411	G-19	D842	G-6						
D412	1-22	D843	I-3						
D413	1-22	D882	F-8 F-6						
D414 D415	I-22 I-23	D886	F-6						
	G-19	D887 D891	G-6						
D416 D418	G-19 G-21	D891	G-6						
D418	G-21 G-20	D092	G-6						
		IC101	C-2						
D420 D422	G-19 F-15	IC101	E-3						
		IC105	G-3						
D423 D424	F-16 E-16	IC105	H-3						
	î	IC211							
D425	E-15 E-15	IC211	G-16						
D426	E-13	IC212	J-19						
D427		l	E-25						
D428	E-13 F-14	IC402 IC403	G-23 F-17						
D429	F-14 F-15	IC403	E-21						
D430 D431	H-19	IC431	C-20						
D431	H-20	IC601	H-26						
D432	H-21	IC701	H-11						
D433	H-22	IC701	D-8						
D434 D435	H-23	IC801	I-27						
D435	G-23	IC831	F-4						
D436 D437	G-23 G-22	IC832	G-4						
D437	G-22	IC881	E-4						
D439	G-20	10001	L4						
D440	G-15	Q103	H-3						
D441	H-17	Q104	H-3						
D451	A-5	Q231	H-18						
D600	D-24	Q232	I-16						
D601	D-24	Q233	J-16						
D602	D-23	Q241	H-13						
D602	C-22	Q242	I-14						
D604	D-20	Q243	I-14						
D605	D-19	Q281	H-18						
D606	D-19	Q282	I-18						
D607	D-19	Q291	H-14						
D608	D-19	Q401	E-25						
D609	D-18	Q432	E-22						
D610	D-18	Q433	E-22						
D612	C-17	Q434	E-20						
D612	C-24	Q435	E-19						
D614	C-24	Q601	E-26						
D614	D-17	Q602	D-25						
D616	D-17 D-18	Q701	I-9						
D616	D-18	Q701	I-9 I-12						
	C-16	Q702 Q703	J-12						
D619	B-15	Q703 Q704	D-7						
D620	ľ		I.						
D701	I-10	Q751	I-12						
D702	D-7	Q811	1-27						
D703	C-8	Q821	H-28						
D751	I-12	Q822	H-28						
D801	H-27	Q841	1-4						
D802	K-27								
D803	K-27								
	J-27	1	I						
D804 D805	J-27	1							

	12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
A [MAIN BOARD] D309: AEP, EE, CIS / D359: AEP, UK D309: G, IT / D359: IT TM701 SURROUND SPEAKER SPEAKER SPEAKER SPEAKER SPEAKER SPEAKER	12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
D309: AEP, EE , CIS / D359: AEP, UK D309: G, IT / D359: IT	
A CNIO2 TM701 J701 FOWER SPEAKER SPEAKER SPEAKER SPEAKER SPEAKER SPEAKER SPEAKER SPEAKER SPEAKER SPEAKER	(See Page 14)
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	(See Page 18) ST MAIN BOARD
RIA RIP 0-11-05 STSTEM 10 00 00 00 00 00 00 00 00 00 00 00 00	F8042 F8053 F8063 F8053 F802 F8013
B	[PANEL BOARD] Since Since
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C (See Page (See Page) Cost Cost	4 5 6 6 7 6 6 7 6 6 7 6 6
14) (PRESET STATIONS SSE2 S
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(See Page 18)	\$\frac{1}{2}\frac{1}\frac{1}{2}\f
	D428 D427 D426 D425 D424
2080M	CANYS WM/4 MOVIE/3 DANCE/2 HALL/I CURSOR & & & CONTROL & & & CONTROL & & & CONTROL & & & & CONTROL & & & & & & & & & & & & & & & & & & &
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Ciaz (6-10-6)21 (6-10-	D429 © D430 D402 D402 D403 D403 D403 D403 D403 D403 D403 D403
	DISPLAY CHOICE TO THE CHOICE THE
CB31 C CB	(See Page 14) S416 S404 S403 B S417 S416 S404 S403 B S418 S417 S416 S404 S403 B S418 S418 S418 S418 S418 S418 S418 S418
0 0536 CB36 CB42 CBU	ST MAIN BOARD (VOLUME) 234 1 1
10642 C692 10705 1	(See Page 18) (See Page 18)
03	RV241 CONTRACTOR OF CONTRACTOR
Caso Caso Caso Caso Caso Caso Caso Caso	POWER BOARD PA38
H (See Page Page Page Page Page Page Page Pa	30916,IT 024 029 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
14)	359 iT
ST MAIN BOARD (CHASSIS) (CHASSIS) (See Page	R752 CHÄSSIS
	15 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
(HP BOARD)	
TOZ HEADPHONES VA	Company Comp
J WHT SHEET STATE OF THE SHEET S	D232 FREQUENCY IP2] POWER TRANSFORMER 3 0703
PED	1-646-987- 21 D804 5- 1- 0 3 3 6 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
D309:6,IT EXCEPT D309:6,IT D309:6,IT D359:IT D359:IT D359:IT D359:IT	1-646-983- D309:6,1T D802
K	R803 (
	R813 6 W 7 1 1 - 646-793 - 21

Note:
Image: indicates side identified with part number.
Image: internal component.
Image: internal c

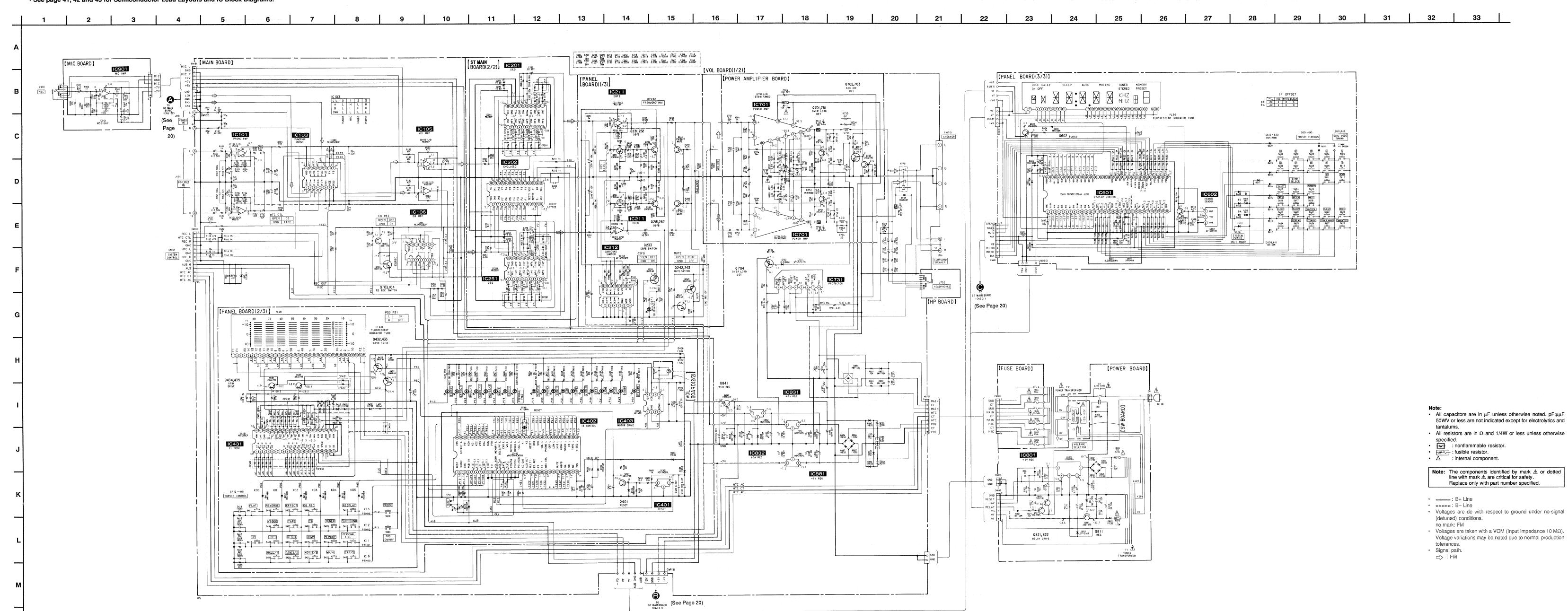
3-10. SCHEMATIC DIAGRAM • MAIN SECTION (STR-D309/D359) • See page 41, 42 and 43 for Semiconductor Lead Layouts and IC Block Diagrams.



3-11. SCHEMATIC DIAGRAM

MAIN SECTION (STR-A37)
See page 41, 42 and 43 for Semiconductor Lead Layouts and IC Block Diagrams.

- 32 -



— 34 —

— 35 —

-33-

— 36 —

SEMICONDUCTOR LOCATION

3-12. PRINTED WIRING BOARD
• MAIN SECTION (STR-A37)

Note:

• [: indicates side identified with part number.

• See page 6 for Circuit Boards Location.

\(\Delta \) : internal component.
\(\text{o} \) : parts extracted from the components side.

D231 D232 D281 D401 D402 D403 D404 D405 D406 D407 D410 I-28 H-27 J-27 K-27 H-27 E-7 F-8 G-6 G-6 I-3 F-8 F-6 F-6 D811 D812 D813 22 23 24 25 26 29 30 D821
D831
D832
D836
D837
D838
D841
D842
D843
D882
D886
D887 [FUSE BOARD] (See Page 22) D412 D413 D414 D415 D416 IC101 IC103 IC105 IC106 IC211 D418
D419
D420
D422
D423
D424
D425
D426
D427
D428
D429
D430
D431
D432
D433
D434 C-2 E-3 G-3 H-3 G-16 J-19 E-25 G-23 F-17 E-21 C-20 H-26 H-11 D-8 I-28 A-4 G-4 E-4 6 7 8 9 10 11 12 13 14 IC212 IC401 IC402 IC403 IC431 IC601 IC602 IC701 IC731 IC801 IC831 IC832 IC881 IC901 D435
D436
D437
D438
D439
D440
D441
D451
D600
D601
D602
D603
D604
D608
D609
D610
D611
D612
D613 D-11 H-3 H-3 H-18 I-16 Q103 Q104 Q231 Q232 Q233 Q241 Q242 Q243 Q281 Q281 Q401 Q432 Q433 Q434 Q435 Q601 Q602 Q701 Q702 Q703 Q704 Q751 Q821 Q821 Q822 Q841 ST MAIN BOARD (CN201) J-16 H-13 I-14 (See Page 22) [POWER BOARD] I-14 H-18 I-18 H-14 E-25 E-22 E-20 E-19 E-26 D-25 I-9 I-12 J-12 D-7 I-12 I-27 H-28 (POWER AMPLIFIER BOARD) D614 D615 D616 D617 D619 D620 D701 D702 D703 D751 D801 D802 D803 D804 D805 H-28 I-4

3-13. SEMICONDUCTOR LEAD LAYOUTS

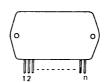
AN6291 M5F78M05L M5F78M07L



LC7522 LC7522K



STK-4152MK2K STK-4172MK2K



2SC1841-PAFAEA 2SC3112-B



HZS6A1L UZL-33L 11ES2



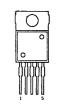
SEL2210S-CD

SEL3210S-CD

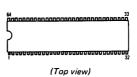
GP1U50XB



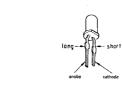
L78MR06

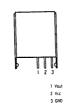


TMP47C1270AN-H211 uPD75104CW-286



2SC2603-EF 2SC2669-0Y 2SC3622A-LK DTA114ES DTC114ES DTC124ES





MC14052BCP MC14053BCP



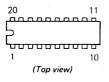
uPC1237HA



2SK246-GR3 2SK246-Y



IR3R42 M5289P



MC14066BCP

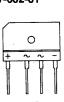


XR-1095



(Top view)

RBV-602-01

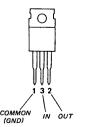


LA1851N

LB1639 M5218AP



M5F79M07L

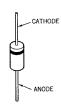


DTA124ES 2SA1175-HFE 2SC2785-HFE





1N4148M UZL-12M3 UZP-5.6B



M51943BSL



2SB1094-LK 2SD2012



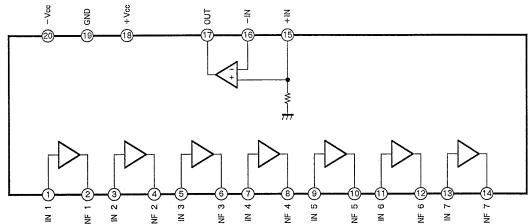
LC7218



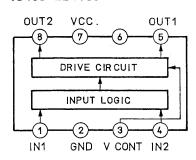
0000 1 2 3 4 (Top view)

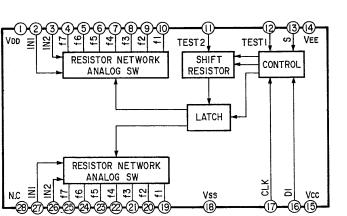
3-14. IC BLOCK DIAGRAMS

• IC201, 251 M5289P



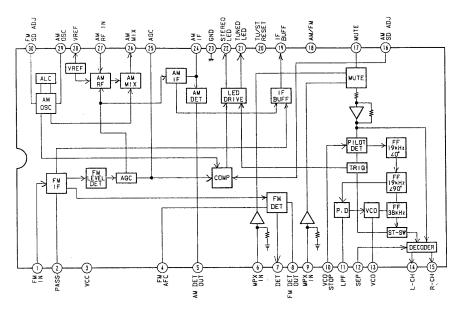
• IC403 LB1639



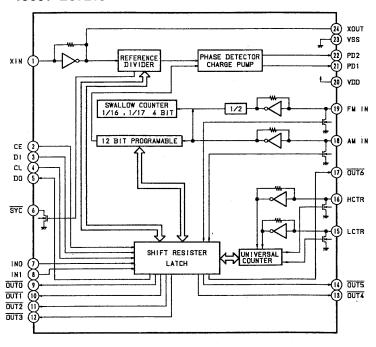


• IC202 LC7522

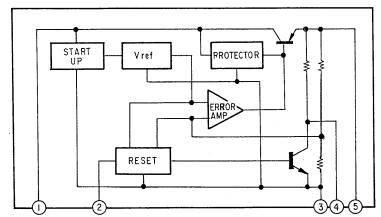




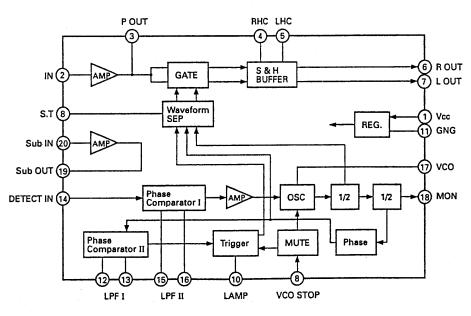
• IC501 LC7218



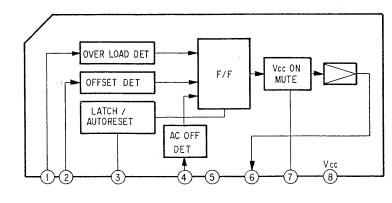
• IC801 L78MR06



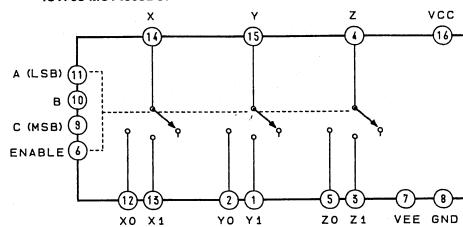
• IC1701 IR3R42



• IC731 uPC1237HA



• IC1703 MC14053BCP



SECTION 4 EXPLODED VIEWS

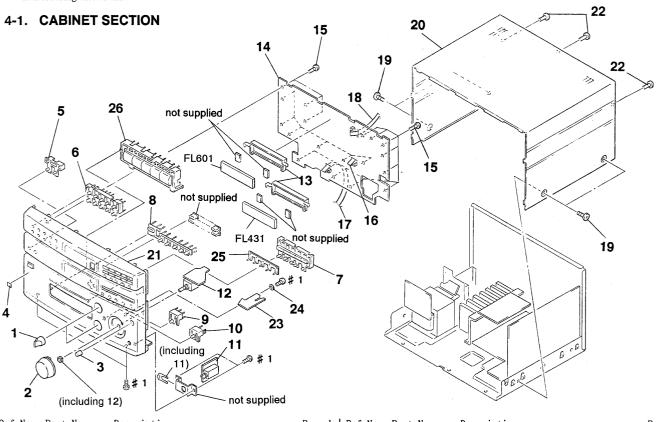
NOTE:

- -XX, -X mean standardized parts, so they may have some difference from the original one.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Color Indication of Appearance Parts Example:
- KNOB, BALANCE (WHITE) . . . (RED)

 † †
 Parts color Cabinet's color
- Hardware (# mark) list is given in the last of this parts list.
- G : Germany model
 IT : Italian model
 AUS : Australian model
 EE : East European model

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety.

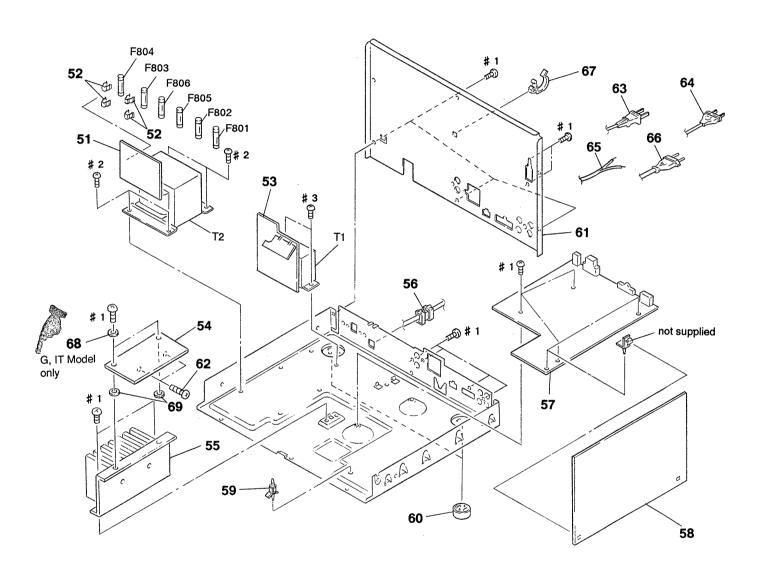
Replace only with part number specified.



	(
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1		KNOB (DB) (D309)		* 14		PANEL BOARD, COMPLETE (D359:IT)	
2	4-955-635-01	KNOB (DB) (A37, D359) KNOB (V) (D309)		*	A-4360-917-A	PANEL BOARD, COMPLETE (D309:EE, CIS) PANEL BOARD, COMPLETE (D359:UK)	
3		KNOB (V) (A37, D359) KNOB (BA) (D309)		15 16		SCREW (2.6X8), +BVTP WIRE (FLAT TYPE) (7 CORE)	
* 4 5	3-703-713-41 4-955-741-01	KNOB (BA) (A37, D359) STICKER, SONY SYMBOL (10) BUTTON (PR) (D309) BUTTON (PR) (A37, D359)		17 18	1-751-025-11 1-751-025-31	WIRE, FLAT TYPE (11 CORE) WIRE (FLAT TYPE) (9 CORE) (A37, D359) WIRE (FLAT TYPE) (9 CORE) (A37, D309, I SCREW (CASE) (M3X8))359)
6		BUTTON (TIMER) (D309)		* 20	4-955-759-11	(A37, D309: AEP, G, IT, EE, CIS, D359))
7 8 9 10	X-4943-304-1 X-4943-303-1 4-955-774-01	BUTTON (SELECT 5) ASSY (D309) BUTTON (SELECT 5) ASSY (A37, D359) BUTTON (DBFB) ASSY (A37, D359) BUTTON (SURROUND) (D309) BUTTON (EFFECT) (D309)		* 21 21	4-955-759-51 X-4943-296-1 X-4943-299-1 X-4943-300-1	CASE (A37, D359) PANEL ASSY, FRONT (D309) PANEL ASSY, FRONT (D359) PANEL ASSY, FRONT (A37) SCREW (+BV 3X8) (A37, D359)	
* 11 * 12 * 13	1-646-977-21 1-646-978-11 1-646-978-21	HP BOARD (D309) HP BOARD (A37, D359) VOL BOARD (D309) VOL BOARD (A37, D359) HOLDER, FL TUBE		* 23 24 25 26	1-646-980-21 3-330-034-01 3-564-542-00 4-955-771-01	MIC BOARD (A37) WASHER (A37, D359) WASHER, FIBER (D309:AEP, G, IT, EE, CI: INDICATOR (SELECT 5) (D309) BUTTON (FU) ASSY (D309)	5)
* 14 * * *	A-4356-977-A A-4356-995-A A-4360-124-A	PANEL BOARD, COMPLETE (D309:AEP) PANEL BOARD, COMPLETE (D359:AEP) PANEL BOARD, COMPLETE (A37:E, AUS, P) PANEL BOARD, COMPLETE (D309:G) PANEL BOARD, COMPLETE (D309:IT)	(()	FL431	1-519-648-21	INDICATOR TUBE, FLUORESCENT INDICATOR TUBE, FLUORESCENT	



4-2. CHASSIS SECTION





Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description			Remark
* 51 *		FUSE BOARD (D309) FUSE BOARD (D359)		⚠ F803 ⚠ F804	1-532-299-00 1-532-299-00				
52 *	1-533-213-11	HOLDER, FUSE (D309) HOLDER, FUSE (A37/D359)		 ⚠ F805 ⚠ F806	1-532-286-00 1-532-286-00	FUSE (2.5A)		(n - n - n - n - n - n - n - n - n - n -	
* 53	A-4356-906-A	POWER BOARD, COMPLETE (D309:AEP, G, I)	r, ee, cis)	<u></u> <u>∧</u> T1		TRANSFORMER,			
* * * * 54	A-4356-993-A A-4360-002-A	POWER BOARD, COMPLETE (D359:AEP, I1 POWER BOARD, COMPLETE (D359:UK) POWER BOARD, COMPLETE (A37) POWER AMPLIFIER BOARD, COMPLETE		\\Lambda \\	1-423-647-21 1-423-499-11 1-423-499-21	TRANSFORMER, TRANSFORMER, TRANSFORMER, TRANSFORMER, TRANSFORMER,	POWER POWER POWER	(A37) (D309) (D359)	
*	A-4356-986-A	(D309:AEF POWER AMPLIFIER BOARD, COMPLETE (D							
* * *	A-4360-001-A	POWER AMPLIFIER BOARD, COMPLETE (I POWER AMPLIFIER BOARD, COMPLETE (A POWER AMPLIFIER BOARD, COMPLETE							
* * 55		POWER AMPLIFIER BOARD, COMPLETE (I HEAT SINK (L3-E) (D309:AEP, G, IT, EE	0359:IT)						
* 56 * 57 *	3-703-571-11 A-4356-904-A A-4356-985-A	BUSHING (2104), CORD (A37:AUS, D309 BUSHING (S)(4516), CORD (A37:E, PX) MAIN BOARD, COMPLETE (D309:AEP) MAIN BOARD, COMPLETE (D359:AEP) MAIN BOARD, COMPLETE (D359:UK)), D359)						
* * * * *		MAIN BOARD, COMPLETE (D309:G)	CIS)						
* * 58 * *	A-4356-901-A A-4356-982-A A-4356-989-A	MAIN BOARD, COMPLETE (D359:IT) ST MAIN BOARD, COMPLETE (D309:AEP) ST MAIN BOARD, COMPLETE (D359:AEP) ST MAIN BOARD, COMPLETE (D359:UK) ST MAIN BOARD, COMPLETE (A37)							
* * * * *	A-4360-503-A A-4360-814-A A-4360-817-A	ST MAIN BOARD, COMPLETE (D309:G, I7 ST MAIN BOARD, COMPLETE (D359:IT) ST MAIN BOARD, COMPLETE (D309:EE) ST MAIN BOARD, COMPLETE (D309:CIS) HOLDER, PC BOARD							
60 * 61 *	X-4941-228-1 4-955-769-11 4-955-769-21	FOOT (A37, D359) FOOT ASSY (D309) PANEL, BACK (D309:AEP) PANEL, BACK (D309:CIS) PANEL, BACK (D309:IT)							
* * * *	4-955-769-51 4-955-769-61 4-955-769-71	PANEL, BACK (D309:G) PANEL, BACK (D309:AEP) PANEL, BACK (D309:AEP) PANEL, BACK (D309:EE) PANEL, BACK (D359:AEP)							
* * * *	4-955-828-31 4-955-828-51 4-955-828-61	PANEL, BACK (D359:UK) PANEL, BACK (D359:IT) PANEL, BACK (D359:AEP) PANEL, BACK (A37:E, PX) PANEL, BACK (A37:AUS)							
62 <u>163</u> 164 165 166	1-575-653-11 1-690-608-11 1-696-570-21	SCREW, +BV (2. 6X16) TAPPING CORD, POWER (A37:E, PX) CORD, POWER (A37:AUS) CORD, POWER (D359:UK) CORD, POWER (D309:AEP, G, IT, EE, CIS/D358	∂:AEP,IT)						
67 68 69 <u>1</u> F801 <u>1</u> F802	4-960-342-21	BAND, PLUG FIXED (A37:AUS) WASHER (HEAT SINK) (G, IT) WASHER (HEAT SINK) FUSE (1A) FUSE (1A)	7					nents identified by	

⚠ or dotted line with mark ⚠ are critical for safety.

Replace only with part number specified.



SECTION 5 ELECTRICAL PARTS LIST

FUSE



MAIN

NOTE:

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety.

Replace only with part number specified.

When indicating parts by reference number, please include the board name.

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
 All resistors are in ohms
 METAL: Metal-film resistor
 METAL OXIDE: Metal Oxide-film resistor
 F: nonflammable
- Color Indication of Appearance Parts Example: KNOB, BALANCE (WHITE) . . . (RED)

Parts color

Cabinet's color

 Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items. • SEMICONDUCTORS In each case, u: μ , for example: uA...: μ A..., uPA...: μ PA..., uPB...: μ PB..., uPC...: μ PC..., uPD...: μ PD...

- CAPACITORS uF: μF
- COILS uH : μH
- Hardware (# mark) list is given in the last of this parts list.
- G : Germany model
 IT : Italian model
 FF : Fast Furgnean mod
- EE : East European modelCIS : Common Independent States model
- AUS: Australian model

AEP1: AEP with out POWER SOURCE

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	AEP2: AIDescription	EP with POV	VER SC	OURCE <u>nemark</u>
*	1-646-972-11	FUSE BOARD (D309)				< CAPACITO	R >		
•		*******		C101	1-124-925-11	DI DOT	2. 2uF	20%	100V
*	1_646_072_21	FUSE BOARD (D359)		C101 C102	1-164-073-11		2. Zur 100PF	10%	50V
*	1-040-912-21	*************		C102	1-164-066-11		68PF	10% 5%	50V 50V
		*********		C103	1-124-126-00		47uF	20%	10V
*	1_646_075_91	FUSE BOARD (A37)		C104 C105	1-161-377-00		0.0047uF	30%	16V
T	1 040 313 21	*************		C103	1-101-377-00	CERAMIC	0.004 rur	30/0	101
		**********		C106	1-161-374-11	CERAMIC	0.0015uF	20%	50V
		< CONNECTOR >		C107	1-124-464-11		0. 22uF	20%	50V
		Commortal		C108	1-124-126-00		47uF	20%	10V
* CN801	1-564-512-11	PLUG, CONNECTOR 9P		C111	1-124-916-11		22uF	20%	63V
				C131	1-124-907-11		10uF	20%	50V
******	*****	***********	*****	-					
				C132	1-164-159-11	CERAMIC	0. 1uF		50V
*	1-646-977-11	HP BOARD (D309)		C133	1-164-159-11	CERAMIC	0. 1uF		50V
		******		C141	1-162-286-31	CERAMIC	220PF	10%	50V
							(D30	9:G, IT,	/D359:IT)
*	1-646-977-21	HP BOARD (A37/D359)		C142	1-162-286-31	CERAMIC	220PF	10%	50V
		*******					(D30	9:G, IT,	/D359:IT)
				C151	1-124-925-11	ELECT	2. 2uF	20%	100V
		< JACK >							
				C152	1-164-073-11		100PF	10%	50V
* J702	1-691-003-11	JACK, LARGE TYPE (HEADPHONES)	_	C153	1-164-066-11		68PF	5%	50V
				C154	1-124-126-00		47uF	20%	10V
******	******	**********	*****	C155	1-161-377-00		0.0047uF	30%	16V
		W		C156	1-161-374-11	CERAMIC	0.0015uF	20%	50V
*	A-4356-904-A	MAIN BOARD, COMPLETE (D309:AEP2)		0155	1 104 404 11	Dr Dom	0 00 5	000/	F071
		*********		C157	1-124-464-11		0. 22uF	20%	50V
	A 4000 000 A	MAIN DOADD CONDITTE (DOES ADDO)	36000	C158	1-124-126-00		47uF	20%	10V
*	A-4356-985-A	MAIN BOARD, COMPLETE (D359:AEP2)		C161	1-124-916-11		22uF	20%	63V
		*********		C181	1-124-907-11		10uF	20%	50V
u.	A 4260 000 A	MAIN BOARD, COMPLETE (A37)		C182	1-164-159-11	CERAMIC	0. 1uF		50V
*	A-4300-000-A	**************************************		C183	1-164-159-11	CEDAMIC	0. 1uF		50V
		**************************************		C103	1-162-286-31		220PF	10%	50V
*	A-4360-131-A	MAIN BOARD, COMPLETE (D309:G)	A	. 0131	1 102 200 51	CLIMITC			/D359:IT)
		*******		C192	1-162-286-31	CERAMIC	220PF	10%	50V
			0000						/D359:IT)
*	A-4360-177-A	MAIN BOARD, COMPLETE (D309:AEP1,	EE, CIS)	C431	1-161-379-00	CERAMIC	0. 01uF	20%	25V
		*********	*	C432	1-161-379-00	CERAMIC	0.01uF	20%	25V
*	A-4360-185-A	MAIN BOARD, COMPLETE (D309:IT)		C731	1-126-176-11	ELECT	220uF	20%	10V
		*********		C732	1-126-176-11	ELECT	220uF	20%	10V
				C733	1-124-443-00		100uF	20%	10V
*	A-4360-505-A	MAIN BOARD, COMPLETE (D359:IT)		C734	1-124-916-11		22uF	20%	63V
		*********		C735	1-124-916-11	ELECT	22uF	20%	63V
	1 1000 001	MATH DOADD GOMDY DED (DOES)		a =					
*	A-436U-991-A	MAIN BOARD, COMPLETE (D359:UK)		C741	1-136-163-00	FILM	0.068uF	5%	50V
		*********	İ				(D309	:G, IT/I	D359:IT)



MAIN

R	ef. No.	Part No.	Description				Remark	Ref.	No. 1	Part No.	Descr	iption			Remark
	C742	1-136-163-00	FILM	0. 068uF	5%	50V		* C	N131	1-568-955-11	PIN.	CONNECTO	R 6P (A37	7)	
	*				:G, IT/D3)			1-568-830-11					
	C743	1-162-294-31	CERAMIC			50V	•	ı		1-564-510-11					
					:G, IT/D3)								
	C784	1-124-916-11		22uF		63V				1-568-954-11					
	C785	1-124-916-11	ELECT	22uF	20%	63V		C	NP131	1-695-090-11	PIN,	CONNECTO	R (PC BOA	ARD) 13F	•
	0001		n*****					C	NP132	1-750-180-11	PIN,	CONNECTO	R (PC BOA	ARD) 5P	
	C791	1-136-163-00	FILM	0. 068uF		50V	`								
	C792	1-136-163-00	DIIM	0. 068uF	:G, IT/D3 5%	50V)				< D10	ODE >			
	C192	1-130-103-00	LILM		აგ :G, IT/D3)	م ا	451	8-719-933-33	וחטות	E HZS6A	11		
	C793	1-162-294-31	CERAMIC			50V	,	ı		8-719-987-63					
					:G, IT/D3)	ı		8-719-987-63					
	C831	1-136-161-00	FILM	0.047uF		507	,	D		8-719-302-38					
	C833	1-126-138-11	ELECT	4700uF	20%	50V		D	832	8-719-987-63	DIOD				
						(A37))								
	0000	1 100 004 11	DI DOM	4500 D	200/	4077		1		8-719-200-82					
	C833	1-126-224-11	ELECT	4700uF		42V	`	1		8-719-200-82					
	C024	1_124_002_11	DI DOT	1		, D359)			8-719-987-63			8M		
	C834 C835	1-124-903-11 1-102-394-11		1uF 0. 01uF		50V 250V				8-719-200-82 8-719-200-82					
	C836	1-124-557-11		1000uF		25V		"	044	0-119-200-02	וטטוע	E 11ES2			
	C837	1-124-907-11		10uF		50V		D	843	8-719-001-76	DIODI	E UZL-1:	2M3		
								l		8-719-987-63					
	C838	1-124-907-11	ELECT	10uF		50V		D	886	8-719-200-82	DIODI	E 11ES2			
	C839	1-124-477-11		47uF		25V				8-719-200-82					
	C840	1-124-477-11	ELECT	47uF	20%	25V		D	891	8-719-200-82	DIODI	E 11ES2			
	C0 10	1 104 100 00	DI DOT	47P	000	(A37))		000	0.710.000.00	D T O D I				
	C840	1-124-126-00	ELECI	47uF		10V /D359	`	D	892	8-719-200-82	וטטנט	E 11ES2			
	C841	1-124-907-11	ELECT	10uF		50V	,				< IC	>			
	0011	1 151 001 11	BBBOT	1041	2070	001					\ 10	,			
	C842	1-124-122-11	ELECT	100uF	20%	50V		I	C101	8-759-634-51	IC	M5218AP			
	C843	1-126-105-11	ELECT	1000uF	20%	35V		I	C103	8-759-000-48	IC	MC14052B	CP		
	C844	1-126-101-11		100uF		16V				8-759-634-51		M5218AP			
	C845	1-126-101-11		100uF		16V				8-759-000-49		MC14066B			
	C846	1-124-122-11		100uF		50V	(V)	I	C731	8-759-111-68	IC	uPC1237H	A		
			(D309:AEP2,	G/D359:	AEPZ,	UN)		0001	0 750 005 00		Medanoa	,		A
	C847	1-124-477-11	FIFCT	47uF	20%	25V 🖽	1 P	_		8-759-605-00 8-759-604-35		M5F78M071			
	C041	1 124 477 11	DDDC1	Tiul	(D359:A					8-759-604-39		AN6291	L		
Malain.	C847	1-124-910-11	ELECT	47uF		50V	,	1,	0041	0 100 004 00	10		309 · AFP2	C/D3E0	:AEP2, UK)
ar -way					(D309:	AEP2,	G)	I	C881	8-759-604-95	IC	M5F79M07		, 0/ 0000	. ACF 2, UK)
	C881	1-136-161-00	FILM	0. 047uF	5%	50V									
	C883	1-126-138-11		4700uF		50V					< JAG	CK >			
						(A37))		101			n*** (n	/5		
	C883	1-126-224-11	ELECT	4700uF		42V		* J	101	1-580-912-11	JACK,	PIN 4P	(PHONO/VI		
						/D359)	* J	101	1_590_019_91	IACV	DIM AD	DUONO /1/1		D309)
	C886	1-124-480-11	ELECT	470uF	20%	25V		r J.	101	1-580-912-21	JACK,	PIN 4P	(PHUNU/ VI	DEO IN) (A37/	
	0000	1 104 477 11	DI DOT	1712	200	ocu		* J'	701	1-569-130-11	JACK	PIN 2P	(SURROUND		
	C887	1-124-477-11		47uF 10uF		25V 50V				1 000 100 11	onon,	1 111 221	(Oomitoon)	OI DINIL	11)
	C888 C892	1-124-907-11 1-124-122-11		100r 100uF		50V					< CO	L >			
	C897	1-161-377-00				25V									
	COST	1 101 011 00	CERTIFIC		G, IT/D3)	•		1-420-872-00					
				,				L'	752	1-420-872-00	COIL,	AIR COR	E (D309:G	, IT/D35	9:IT)
			< CONNECTOR	: >								NOTOTO :			
											< TR/	INSISTOR :	>		
*	CN101	1-565-291-11	SOCKET, CON					_ر	103	8-729-119-76	TRANC	CICTOD ()CA117E 11	IDD	
	01100	1 500 010 11	DIN CONNEC	•	STEM CO)	¥.	100	0 123-113-10	TIVUNG	1010IL 1	2SA1175-H	II. D	
*	CN102	1-566-210-11					ווע)								
		9		(D309:AEP2	, u/D359	: ALPZ,	UK)	i							



R733 1-249-436-11 CARBON R733 1-249-437-11 CARBON

39K 5% 1/4W (EXCEPT D359:AEP1) 47K 5% 1/4W (D359:AFP1)



				/,						(D359:A	EP1)			
Ref. No.	Part No.	Description			\	<u>F</u>	Remark	Ref. No.	Part No.	Description				Remark
Q104	8-729-900-36	TRANSISTOR	DTC1	24ES				R204	1-249-421-11	CARBON	2. 2K	5%	1/4W	
Q704	8-729-900-63		DTA1	_				R205	1-249-427-11	CARBON	6.8K	5%	1/4W	
Q841	8-729-209-15	TRANSISTOR	2SD2	012	\	\								
	-	/ DECICTOR						R254	1-249-421-11		2. 2K		1/4W	
		< RESISTOR	,					R255 R431	1-249-427-11 1-249-393-11		6.8K 10	5%	1/4W 1/4W	
R101	1-249-417-11	CARBON	1K	5%	1/4W	/	\	R431	1-249-417-11		1K	5%	1/4W	
R102	1-249-437-11		47K	5%	1/4W			R728	1-249-438-11		56K	5%	1/4W	
R104	1-249-416-11	CARBON	820	5%	1/4W									
R105	1-247-897-11		560K		1/4₩			R731	1-249-429-11		10K	5%	1/4W	
R106	1-249-437-11	CARBON	47K	5%	1/4₩			R732	1-249-441-11		100K		1/4W	
R107	1-249-409-11	CAPRON	220	5%	1/4₩			R733 R734	1-249-436-11 1-249-427-11		39K 6.8K		-1/4W- 1/4W	
R107	1-249-405-11		100K		1/4W			R735	1-249-427-11		6. 8K		1/4W	
R109	1-249-409-11		220	5%	1/4W		162	N 100	1 240 487 11	Childon	0. 011	070	1/ 111	
R111	1-249-417-11		1K	5%	1/4W			<u></u> 1.736 №	1-215-891-11	METAL OXIDE	680	5%	2₩ F	•
R112	1-247-903-00	CARBON	1M	5%	1/4W			R737	1-249-410-11		270	5%	1/4W	
2110	1 040 417 11	O' DDOM	117	50 /	1 / / 1777			R738	1-249-410-11	CARBON	270	5%	1/4W	
R113 R114	1-249-417-11 1-247-903-00		1K 1M	5% 5%	1/4W 1/4W			R741	1-249-389-11	CARRON	4. 7	5%	1/4W	
R114	1-249-413-11		470	5%	1/4W			N/41	1 243 303 11	CARDON			IT/D359:	IT)
R116	1-247-903-00		1M	5%	1/4₩			R742	1-249-389-11	CARBON	4.7		1/4W	/
R121	1-249-433-11	CARBON	22K	5%	1/4W						(D	309:G,	IT/D359:	IT)
R122	1-249-433-11		22K	5%	1/4₩			R778	1-249-437-11		47K	5% 5%	1/4W	
R123 R124	1-249-433-11 1-249-433-11		22K 22K	5% 5%	1/4W 1/4W			R787 R788	1-249-410-11 1-249-410-11		270 270	5% 5%	1/4W 1/4W	
R131	1-249-437-11		47K	5%	1/4W			R791	1-249-389-11		4.7	5%	1/4W	
R132	1-249-437-11		47K	5%	1/4W	(A37)						309:G,	IT/D359:	IT)
								R792	1-249-389-11	CARBON	4.7		1/4W	
R133	1-249-437-11		47K	5%	1/4W						(D	309:G,	IT/D359:	IT)
R135 R136	1-249-433-11 1-249-433-11		22K 22K	5% 5%	1/4₩ 1/4₩			R831	1-249-429-11	CARRON	10K	5%	1/4W	
R137	1-249-433-11		22K 22K	5%	1/4W			R841	1-249-421-11		2. 2K		1/4W	
R141	1-249-417-11		1K	5%	1/4W			R881	1-249-429-11		10K	5%	1/4W	
			(D	309:G,	IT/D35	59:IT)								
D151	1 040 417 11	CADDON	117	ΓN	1 / 400					< RELAY >				
R151 R152	1-249-417-11 1-249-437-11		1K 47K	5% 5%	1/4₩ 1/4₩			RY701	1-515-533-11	RFI AV				
R154	1-249-416-11		820	5%	1/4₩			MITOI	1 010 000 11	KDD/11				
R155	1-247-897-11	CARBON	560K		1/4₩					< TERMINAL	>			
R156	1-249-437-11	CARBON	47K	5%	1/4₩						/0			
R157	1-249-409-11	CARRON	990	5%	1/4W			1M701	1-537-481-11	TERMINAL BO) T/D359:I	π)
R158	1-249-409-11		220 100K	5%	1/4W			TM701	1-537-494-11	TERMINAL BO	-			1)
R159	1-249-409-11		220	5%	1/4W			1111101	1 557 454 11	(A37/D309:A				IK)
R161	1-249-417-11		1K	5%	1/4W					(1101) 2000111	,,	010, 20	, ,	,
R162	1-247-903-00	CARBON	1M	5%	1/4W			******	******	******	*****	*****	******	******
D100	1 040 417 11	CADDON	117	F0/	1 / 477				1 040 000 01	MIC DOADD /	107)			
R163 R164	1-249-417-11 1-247-903-00		1K 1M	5% 5%	1/4\ 1/4\			*	1-646-980-21	********				
R165	1-247-903-00		1M 470	5%	1/4W					ጕጥጥጥጥጥጥ	·ጥጥጥ			
R166	1-247-903-00		1M	5%	1/4W					< CAPACITOR	>			
R181	1-249-437-11		47K	5%	1/4W									
D100	1 040 407 11	CADDON	4717	ΓO	1 / #111	(407)		C901	1-124-925-11		2uF	20%	100V	
R182 R183	1-249-437-11 1-249-437-11		47K 47K	5% 5%	1/4W 1/4W	(A31)	·	C902 C903	1-162-294-31 1-162-219-31		001uF	10% 5%	50V 50V	
R191	1-249-437-11		1K	5%	1/4W			C903	1-162-219-31			10%	50V 50V	
				309:G,		9:IT)		C905	1-124-464-11		22uF	20%	50V	

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety.

Replace only with part number specified.

MIC PANEL

Ref. No.	Part No.	Description			<u>R</u>	emark	Ref. No.	Part No.	Description				Remark
C906	1-124-477-11	FIFCT AT	7uF	20% 2	25V		C239	1-124-126-00	DI DOT	47uF	20%	10V	
C956	1-124-477-11				25V 25V		C233	1-124-126-00		47uF	20%	10V	
		< IC >					C241	1-124-903-11		luF	20%	50V	
TC901	8-759-634-51	TC M5218AP					C242 C281	1-124-443-00 1-164-066-11		100uF 68PF	20% 5%	10V 50V	
10001	0 100 001 01	10 MOZIONI					C282	1-164-070-11		100PF	5%	50V	
		< JACK >					C283	1-124-907-11	ELECT	10uF	20%	50 V	
* J901	1-573-151-21	JACK, LARGE T	TVPR (MIC	'			C284	1-124-257-00	DI DOT	2. 2uF	20%	50V	
+ 0001	1 0/0 101 21	onch, Emile I	IIID (MIC	•)			C285	1-162-282-31		2. Zur 100PF	10%	50V	
		< RESISTOR $>$					C287	1-124-252-00		0. 33uF	20%	50V	
D001	1 040 400 11	CADDON	077 = 50/	1 / 477		ĺ	C288	1-136-160-00		0. 039uF	5%	50V	
R901 R902	1-249-429-11 1-249-417-11		LOK 5%	1/4W 1/4W			C289	1-124-126-00	ELECT	47uF	20%	10V	
R903	1-249-441-11		100K 5%	1/4W			C290	1-124-126-00	ELECT	47uF	20%	10V	
R904	1-249-412-11		390 5%	1/4W			C291	1-124-903-11		luF	20%	50V	
R905	1-249-441-11	CARBON 1	100K 5%	1/4W			C401	1-126-177-11		100uF	20%	10V	
R906	1-249-417-11	CARRON 1	.K 5%	1/4W			C402 C403	1-161-494-00 1-136-165-00		0. 022uF	F0/	25V	
R907	1-249-429-11		OK 5%	1/4W			C403	1-120-102-00	LITM	0. 1uF	5%	50V	
				-,			C404	1-161-379-00	CERAMIC	0.01uF	20%	25V	
*****	******	******	******	******	k*****	****	C405		DOUBLE LAYERS			5. 5V	
*	A-4356-896-A	PANEL BOARD,	COMDI ETE	(D200.A	(סמו		C406 C407	1-126-157-11 1-164-159-11		10uF 0. 1uF	20%	16V 50V	
•	11 4000 000 N	*******		•	,		C407	1-104-139-11		100uF	20%	10V	
												-01	
*	A-4356-977-A	PANEL BOARD,					C412	1-161-494-00		0. 022uF		25V	
		******	******	*****	****		C414 C415	1-162-294-31 1-162-294-31			10% 10%	50V 50V	
*	A-4356-995-A	PANEL BOARD,	COMPLETE	(A37)			C416	1-162-294-31		0.001uF		50Y	
		******					C417	1-162-294-31			10%	50V	
*	A-4360-124-A	PANEL BOARD,	COMDI ETE	(D200.C	2)		C441	1 100 177 11	DI DOT	100D	0.00/	1017	
T.	N 4500 124 N	*********					C441 C442	1-126-177-11 1-164-159-11		100uF 0. 1uF	20%	10V 50V	
							C443	1-126-177-11		100uF	20%	10V	
*	A-4360-183-A	PANEL BOARD,					C444	1-164-159-11		0. 1uF		50V	
		******	******	******	***		C445	1-130-471-00	MYLAR	0.001uF	5%	50V	
*	A-4360-500-A	PANEL BOARD,	COMPLETE	(D359:I	(T)		C446	1-126-163-11	ELECT	4. 7uF	20%	50V	
		********	******	******	***		C447	1-126-163-11	ELECT	4. 7uF	20%	50V	
	A 4000 010 A	DANEL DOADD	CONDI DED	(D000 D	n ara)		C448	1-126-157-11		10uF	20%	16V	
*	A-450U-612-A	PANEL BOARD, *******					C601 C602	1-126-177-11 1-164-159-11		100uF 0. 1uF	20%	10V 50V	
							0002	1 104 105 11	CLIMATC	o. rui		301	
*	A-4360-917-A	PANEL BOARD,					C604	1-126-157-11		10uF	20%	16V	
		********	******	******	***		C605	1-124-916-11		22uF	20%	63V	
		< CAPACITOR >					C606 C607	1-162-202-31 1-162-202-31		13PF 13PF	5% 5%	50V 50V	
		· controlled /				l	C608	1-126-163-11		4. 7uF	20%	50V	
C231	1-164-066-11		68PF		50 V						/-		
C232	1-164-070-11		100PF		50V		C609	1-136-153-00		0.01uF	5%	50V	
	1-124-907-11 1-124-257-00		10uF 2. 2uF		50V 50V		C610	1-164-159-11	CERAMIC	0. 1uF		50V	
C235	1-162-282-31		2. 2ur 100PF		50V	.			< FILTER >				
						1							
C236	1-164-159-11		0. 1uF		50V		CF401	1-567-775-11	VIBRATOR, CERA	MIC (4.19	9MHz)		
	1-124-252-00 1-136-160-00		0. 33uF 0. 039uF		50V 50V								
-200			5. 500ul	0/0	JU1	1							

PANEL

Ref. No.	Part No.	Descrip	tion	Remark	Ref. No.	Part No.	Description	Remark
		< CONNE	ECTOR >		D600	8-719-987-63	DIODE 1N41	48M
					D601	8-719-987-63		
			CONNECTOR 7P		D602	8-719-987-63	DIODE 1N41	48M
			CONNECTOR 11P		D603	8-719-987-63		48M
* CN601	1-568-828-11	SOCKET,	CONNECTOR 9P		D604	8-719-987-63	DIODE 1N41	48M
		< COMPO	OSITION CIRCUIT BLOCK >		D605	8-719-987-63		48M (D309:AEP, D359:AEP, UK)
			TION CIRCUIT BLOCK		D606	8-719-987-63		48M (D309:IT/D359:IT)
CP432	1-239-054-11	COMPOSI	TION CIRCUIT BLOCK		D607	8-719-987-63	DIODE 1N41	48M (D309:EE, CIS)
					D608	8-719-987-63		48M (A37/D309:EE, CIS)
		< DIODE	3 >		D609	8-719-987-63	DIODE 1N41	48M
D231	8-719-987-63	DIODE	1N4148M		D610	8-719-987-63	DIODE 1N41	48M
D232	8-719-987-63		1N4148M		D611	8-719-987-63		48M (A37)
D281	8-719-987-63		1N4148M		D612	8-719-987-63		
D401	8-719-200-82		11ES2		D613	8-719-987-63		
D402	8-719-987-63	DIODE	1N4148M		D614	8-719-987-63	DIODE 1N41	48M
D403	8-719-200-82	DIODE	11ES2		D615	8-719-987-63	DIODE 1N41	48M
D404	8-719-987-63	DIODE	1N4148M		D616	8-719-987-63	DIODE 1N41	48M
D405	8-719-200-82		11ES2		D617	8-719-987-63		
D406	8-719-200-82		11ES2		D618	8-719-987-63		48M
D407	8-719-200-82	DIODE	11ES2		D619	8-719-987-63	DIODE 1N41	48M
D410	8-719-987-63	DIODE	1N4148M		D620	8-719-987-63	DIODE 1N41	48M
D411	8-719-987-63	DIODE	1N4148M					
D412	8-719-987-63		1N4148M				< FLUORESCEN	T INDICATOR >
D413	8-719-987-63		1N4148M					
D414	8-719-987-63	DIODE	1N4148M					BE, FLUORESCENT BE, FLUORESCENT
D415	8-719-987-63	DIODE	1N4148M					
D416	8-719-987-63		1N4148M				< IC >	
D418	8-719-200-82		11ES2		*****			
D419 D420	8-719-200-82 8-719-200-82		11ES2			8-759-634-51		ncn
D420	0-119-200-02	DIODE	11ES2			8-759-000-48 8-759-635-63		
D422	8-719-301-37	LED	SEL2210S-CD			8-759-160-26		
D423	8-719-301-37		SEL2210S-CD			8-759-820-62		1011 200
D424	8-719-301-37		SEL2210S-CD		10100	0 100 020 02	:	
D425	8-719-301-37	LED	SEL2210S-CD		IC431	8-759-065-88	IC XR-1095	
D426	8-719-301-37	LED	SEL2210S-CD			8-759-157-67		270AN-H211
D.107	0 710 001 07	LDD	071 00100 0D		IC602	8-749-922-36	IC GP1U50X	В
D427	8-719-301-37		SEL2210S-CD				(COII)	
D428 D429	8-719-301-37 8-719-301-37		SEL2210S-CD				< COIL >	
D429 D430	8-719-301-37		SEL2210S-CD SEL2210S-CD		L401	1_400_000_00	INDUCTOR 100	п
D431	8-719-301-37		SEL2210S-CD		L401		INDUCTOR 100	
2.01					L451		INDUCTOR 100	
D432	8-719-301-37	LED	SEL2210S-CD		L601		INDUCTOR 100	
D433	8-719-301-37		SEL2210S-CD					
D434	8-719-301-37	LED	SEL2210S-CD	į			< TRANSISTOR	>
D435	8-719-301-37		SEL2210S-CD					
D436	8-719-301-37	LED	SEL2210S-CD		Q231	8-729-224-61		2SK246-Y
D.10=	0 810 001 5		077 00400 07		Q232	8-729-119-78		2SC2785-HFE (D309)
D437	8-719-301-37		SEL2210S-CD		Q232	8-729-620-05		2SC2603-EF (A37/D359)
D438	8-719-301-37		SEL2210S-CD		Q233	8-729-900-63		DTA124ES
D439	8-719-301-37		SEL2210S-CD	İ	Q241	8-729-141-26	TRANSTSTOR	2SC3622A-LK
D440 D441	8-719-313-69 8-719-301-37		SEL3210S-CD SEL2210S-CD		Q242	8-729-900-36	TDANCICTOD	DTC194ES
D441	0 110.011-01	חחח	20079102-CD	ı	W444	0-149-900-30	TRAINSTSTUR	DTC124ES

PANEL

Ref. No.	Part No.	Description				Remark	Ref. No.	Part No.	Description				Remark
Q243	8-729-900-63	TRANSISTOR	DTA1	24ES			R402	1-249-435-11	CARBON	33K	5%	1/4W	
Q281	8-729-224-61			46-Y			R403	1-249-429-11		10K	5%	1/4W	
Q282	8-729-119-78		2SC2	785-HFE	(D309)		R404	1-249-437-11	CARBON	47K	5%	1/4W	
Q282	8-729-620-05	TRANSISTOR	2SC2	603-EF	(A37/D359	1)	R406	1-249-405-11	CARBON	100	5%	1/4W	
Q291	8-729-141-26	TRANSISTOR	2SC3	622A-LK			R409	1-249-433-11	CARRON	22K	5%	1/4W	
Q401	8-729-119-78				(D309)		R410	1-249-433-11		22K	5%	1/4W	
Q401	8-729-620-05				(A37/D359	1)	R411	1-249-429-11		10K	5%	1/4W	
Q432	8-729-900-63		DTA1		,	,	R412	1-249-433-11		22K	5%	1/4W	
Q433	8-729-900-63		DTA1	24ES			R413	1-249-433-11		22K	5%	1/4W	
Q434	8-729-119-78	TRANSISTOR	2502	785-HFF	(D309)		R414	1-249-433-11	CARRON	22K	5%	1/4W	
Q434	8-729-620-05				(A37/D359	1)	R415	1-249-433-11		22K	5%	1/4W	
Q435	8-729-119-78				(D309)	•	R416	1-249-417-11		1K	5%	1/4W	
Q435	8-729-620-05				(A37/D359	1)	R417	1-249-417-11		1K	5%	1/4W	
Q601	8-729-119-78				(D309)		R418	1-249-417-11		1K	5%	1/4W	
					. ' '								
Q601	8-729-620-05				(A37/D359	1)	R419	1-249-433-11		22K	5%	1/4W	
Q602	8-729-119-78				(D309)		R422	1-249-412-11		390	5%	1/4W	
Q602	8-729-620-05	TRANSISTOR	2SC2	603-EF	(A37/D359	1)	R423	1-249-412-11		390	5%	1/4W	
							R424	1-249-412-11		390	5%	1/4W	
		< RESISTOR	>				R425	1-249-412-11	CARBON	390	5%	1/4W	
R230	1-247-903-00	CARBON	1M	5%	1/4W		R426	1-249-412-11	CARBON	390	5%	1/4W	
R231	1-249-417-11	-	1K		1/4W		R427	1-249-411-11		330	5%	1/4W	
R232	1-247-903-00		1M		1/4W		R428	1-249-412-11		390	5%	1/4W	
R233	1-249-429-11		10K		1/4W		R429	1-249-412-11		390	5%	1/4W	
R234	1-249-421-11		2. 2K		1/4W		R430	1-249-415-11		680	5%	1/4W	
					,								
R235	1-249-423-11		3. 3K		1/4W		R442	1-249-418-11		1. 2K		1/4W	
R236	1-249-437-11		47K		1/4W		R443	1-249-409-11		220	5%	1/4W	
R237	1-249-412-11		390		1/4W		R444	1-249-441-11		100K		1/4W	
R238	1-249-427-11		6.8K		1/4W		R445	1-249-409-11		220	5%	1/4W	
R239	1-247-903-00	CARBON	1M	5%	1/4W		R446	1-249-441-11	L CARBON	100K	5%	1/4W	
R240	1-249-435-11	CARBON	33K	5%	1/4W		R447	1-247-897-11	CARBON	560K	5%	1/4W	
R241	1-249-432-11	CARBON	18K	5%	1/4W		R448	1-247-897-11	CARBON	560K		1/4W	
R242	1-249-429-11	CARBON	10K	5%	1/4W		R449	1-249-427-11	L CARBON	6.8K		1/4W	
R243	1-249-433-11	CARBON	22K	5%	1/4W		R450	1-249-436-11	CARBON	39K	5%	1/4W	
R244	1-249-433-11	CARBON	22K	5%	1/4W		R499	1-249-427-11	L CARBON	6.8K	5%	1/4W	
R245	1-249-433-11	CARRON	22K	5%	1/4W		R500	1-249-436-11	LCARRON	39K	5%	1/4W	
	1-249-433-11		22K		1/4W		1	1-249-405-11		100		1/4W	
R248	1-249-433-11		22K		1/4W		R602	1-249-417-11		1K	5%	1/4W	
R249	1-249-425-11		4. 7K		1/4W		R603	1-249-429-11		10K	5%	1/4W	
R280	1-247-903-00		1M	5%	1/4W		R604	1-249-425-11		4. 7K		1/4W	
	1 211 300 00	CHILDON	1111	0/0	1/ 411		1,004	1 240 420 11	CMIDON	4. IL	J/0	1/4#	
R281	1-249-417-11		1K	5%	1/4W		R605	1-249-441-11	I CARBON	100K	5%	1/4W	
R282	1-247-903-00		1M	5%	1/4W		R606	1-249-405-11		100	5%	1/4W	
R283	1-249-429-11		10K	5%	1/4W		R607	1-249-409-11		220	5%	1/4W	
R284	1-249-421-11		2. 2K		1/4W		R608	1-249-409-11		220	5%	1/4W	
R285	1-249-423-11	CARBON	3. 3K	5%	1/4W		R609	1-249-409-11	L CARBON	220	5%	1/4W	
R286	1-249-437-11	CARBON	47K	5%	1/4W		R610	1-249-409-11	CARBON	220	5%	1/4W	
R287	1-249-412-11	CARBON	390	5%	1/4W		R611	1-249-421-11		2. 2K		1/4W	
R288	1-249-427-11	CARBON	6.8K	5%	1/4W		R612	1-249-423-11	I CARBON	3. 3K		1/4W	
R289	1-247-903-00	CARBON	1M	5%	1/4W		R613	1-249-441-11	I CARBON	100K		1/4W	
R299	1-249-425-11	CARBON	4.7K	5%	1/4W		R614	1-249-441-11		100K		1/4W	
D 4 0 1	1 040 417 11	CADDON	117	Ε0/	1 / 4177		Do:-						
R401	1-249-417-11	CARDUN	1K	5%	1/4W		R615	1-249-441-11	I CAKRON	100K	5%	1/4W	

PANEL POLAR

Ref. No.	Part No.	Description		Remark	Ref. No.	Part No.	Descript	ion		Remark
R616	1-249-429-11	CARBON 10K	5% 1/4W		S419	1-554-303-21	SWITCH,	TACTILE	(HALL/1)	
R617	1-249-433-11		5% 1/4W		S420	1-554-303-21				
R618	1-249-425-11	CARBON 4.7K	5% 1/4W		S421	1-554-303-21	SWITCH,	TACTILE	(MOVIE/3)	
R619	1-249-429-11	CARBON 10K	5% 1/4W							
					S422	1-554-303-21				
R620	1-249-429-11	· ·	5% 1/4W		S423	1-554-303-21				>
R621	1-249-429-11		5% 1/4W		S424	1-554-303-21				F)
R622	1-249-429-11		5% 1/4W		S601	1-554-303-21				
R623 R624	1-249-429-11		5% 1/4W		S602	1-554-303-21	SWIICH,	TACTILE	(2)	
NO24	1-249-429-11	CARBON 10K	5% 1/4W		S603	1-554-303-21	SWITCH	TACTILE	(3)	
R625	1-249-429-11	CARBON 10K	5% 1/4W		S604	1-554-303-21				
R626	1-249-429-11		5% 1/4W		S605	1-554-303-21				
R627	1-249-425-11		· ·		S606	1-554-303-21				
R628	1-249-425-11				S607	1-554-303-21				
R629	1-249-425-11									
	÷				S608	1-554-303-21	SWITCH,	TACTILE	(8)	
R630	1-249-425-11	CARBON 4.7K	5% 1/4W		S609	1-554-303-21	SWITCH,	TACTILE	(9)	
R631	1-249-425-11				S610	1-554-303-21				
R632	1-249-425-11				S611	1-554-303-21				
R633	1-249-425-11				S612	1-554-303-21	SWITCH,	TACTILE	(DOWN)	
R634	1-249-425-11	CARBON 4. 7K	5% 1/4W			000 01	0m r m 011		(O1117777)	
Dear	1 040 400 11	CADDON 101	F0/ 1 / AW		S613	1-554-303-21				VOT)
R635	1-249-429-11 1-249-441-11		5% 1/4W		S614	1-554-303-21				CI)
R636 R637	1-249-441-11				S615	1-554-303-21				
R638	1-249-441-11				S616 S617	1-554-303-21 1-554-303-21				
R639	1-249-441-11				3011	1-334-303-21	3#11011,	INCITED	(DAILI)	
11000	1 210 111 11	CIMEDON 100M	070 17 111		S618	1-554-303-21	SWITCH.	TACTILE	(NEXT)	
		< VARIABLE RESIST	OR >		S619	1-554-303-21				
					S620	1-554-303-21				
RV231	1-223-251-11	RES, VAR, CARBON	100K/100K		S621	1-554-303-21	SWITCH,	TACTILE	(CONTROL)	
			(DBS LEVEL	.)	S622	1-554-303-21	SWITCH,	TACTILE	(CLEAR)	
RV232	1-223-251-11	RES, VAR, CARBON							4	
			(FREQUENCY (Hz))	S623	1-554-303-21				
RV241	1-223-253-11	RES, VAR, CARBON		• `	S624	1-554-303-21				WER)
			(BALANCE	s)	S625	1-554-303-21				
		< SWITCH >			S626 S627	1-554-303-21 1-554-303-21				nE)
		\ SHIICH /			3021	1-554-505-21	Switten,	IACTILE	(IIMER MOD)D)
S401	1-554-303-21	SWITCH, TACTILE (FLAT)		S628	1-554-303-21	SWITCH	TACTILE	(CHARACTER	2)
S402		SWITCH, TACTILE (0020	1 001 000 21	On I I City	INCITED	(OIIIIIIIOI DII	•/
		SWITCH, TACTILE (ŀ		< VIBRA	ror >		
S404		SWITCH, TACTILE (
S406	1-554-303-21	SWITCH, TACTILE (VIDEO)		X601	1-579-564-21	VIBRATO	R, CRYSTA	AL (8.38860	8MHz)
S407		SWITCH, TACTILE (******	*****	******	******	*****	*****
S408		SWITCH, TACTILE (•							
S409		SWITCH, TACTILE (*	A-4360-816-A				/
S410		SWITCH, TACTILE (*****	******	*****	*****
S411	1-554-303-21	SWITCH, TACTILE (SUKKUUND)				/ CADAC	TTOD \		
S412	1-554-303-21	SWITCH, TACTILE (IIP)				< CAPAC	1101/		
S412		SWITCH, TACTILE (C1701	1-162-294-31	CERAMIC	0.00)1uF 10%	50V
S414		SWITCH, TACTILE (,			1-102-294-31				50V 50V
S415		SWITCH, TACTILE (1-124-902-00		0. 47		50V
S416		SWITCH, TACTILE (1-124-902-00		0. 47		50V
		•	•			1-164-098-11				12V
S417		SWITCH, TACTILE (
S418	1-554-303-21	SWITCH, TACTILE (1	DISPLAY)		C1706	1-124-903-11	ELECT	luF	20%	50V

POLAR POWER

Ref. No.	Part No.	$\underline{\text{Description}}$				Remark	Ref. No.	Part No.	Descriptio	<u>on</u>			Remark
C1707	1-162-288-31	CERAMIC	330PF	10%	50V				< RESISTO)R >			
	1-124-903-11		1uF		50V								
	1-124-903-11		1uF		50V			1-249-432-11		18K	5%	1/4W	
C1710	1-130-471-00	MYLAR	0.001uF	5%	50V			1-249-435-11		33K	5%	1/4W	
C1710	1 127 264 01	DIIM	0.001.7	F0/	F077			1-249-427-11		6. 8K		1/4W	
	1-137-364-91 1-130-471-00		0. 001uF 0. 001uF	5% 5%	50V			1-247-858-11		13K	5%	1/4W	
	1-130-471-00		0.001uF		50V 50V		K1105	1-249-417-11	CARBON	1K	5%	1/4₩	
	1-130-736-11		0. 01uF		50V		R1706	1-249-417-11	CARRON	1K	5%	1/4W	
	1-130-736-11		0. 01uF		50V			1-249-441-11		100K		1/4W	
								1-249-440-11		82K	5%	1/4W	
C1714	1-124-903-11	ELECT	luF	20%	50V			1-249-439-11		68K	5%	1/4W	
	1-124-903-11		luF	20%	50V		R1710	1-249-439-11	CARBON	68K	5%	1/4W	
	1-124-903-11		1uF		50V								
	1-162-291-31		560PF		50V			1-249-439-11		68K	5%	1/4W	
C1718	1-162-291-31	CERAMIC	560PF	10%	50V			1-247-878-00		91K	5%	1/4W	
C1710	1-124-477-11	DIECT	47E	900/	051			1-247-878-00		91K	5%	1/4W	
	1-124-477-11		47uF 0. 01uF		25V			1-249-441-11			5%	1/4W	
	1-161-379-00		0. 01uF		25V 25V		K1115	1-249-441-11	CARBON	100K	5%	1/4W	
	1-161-379-00		0. 01uF		25V		R1716	1-249-441-11	CARRON	100K	5%	1/4W	
	1-161-379-00		0. 01uF		25V			1-249-441-11			5%	1/4W	
								1-249-429-11		10K	5%	1/4W	
C1724	1-161-379-00	CERAMIC	0.01uF	20%	25V			1-249-429-11		10K	5%	1/4W	
C1725	1-124-477-11	ELECT	47uF	20%	25V			1-249-429-11		10K	5%	1/4W	
	1-124-903-11		luF	20%	50V								
	1-124-903-11		1uF		50V		R1721	1-249-434-11	CARBON	27K	5%	1/4W	
C1728	1-124-034-51	ELECT	33uF	20%	16V		R1722	1-249-441-11	CARBON	100K	5%	1/4W	
C1729	1-124-907-11	ELECT	10uF	20%	50V				< VARIABL	E RESIST	OR >		
	e.	. COMMINGTON											
		< CONNECTOR	>					1-238-601-11					
* CN1701	1-568-832-11	SOCKET CONN	JECTOR 13P				KV1102	1-238-599-11	KES, ADJ,	CARBON	4. /K		
. 0	1 000 002 11	boombi, com	DOTOR TO						< SWITCH	>			
		< DIODE >							\ O#IIOII	,			
							S1701	1-571-303-11	SWITCH, S	LIDE			
D1701	8-719-987-63												
	8-719-987-63								< TEST PI	N >			
	8-719-987-63												
	8-719-987-63							1-560-061-00					
פטדוע	8-719-987-63	DIODE 1N41	148M				* TP1702	1-560-061-00	PIN, CONN	ECTOR 3P			
		< IC >					******	******	*****	******	*****	******	*****
IC1701	8-759-063-04	IC IR3R42					*	A-4356-906-A	POWER ROA	BD CUMD	IFTF (บรบฮา	
	8-759-634-51						*	A 4000 000 A	*****		,	,	
	8-759-140-53		BBCP								*****	*****	
							*	A-4356-987-A	POWER BOA	RD, COMP	LETE (D359:AEP, 1	(T)
		< COIL >							******	*****	*****	*****	* **
1.1701	1-409-497-11	COIL (FILTER	5)				*	A-4356-993-A	DOWED DON	DD COMD	i DTD (1	חפרם - נוער)	
21101	1 100 101 11	COID (IIDIDA	1)				ጥ	N-4330-993-N	*******				
		< TRANSISTOR	? >						· · · · · · · · · · · · · · · · · · ·	T T T T T T T T T T T T T T T T T T	* ጥጥጥጥ	ተተ ዋዋ ተ ቀቀ	
							*	A-4360-001-A	POWER BOA	RD. COMP	LETE (A37)	
	8-729-900-61		DTA114ES						******				
	8-729-900-80		DTC114ES										
	8-729-900-80		DTC114ES						< CAPACIT	OR >			
	8-729-900-80		DTC114ES				^ 01						
Ø1105	8-729-900-61	TRANSISTOR	DTA114ES			l	 C1	1-161-744-00	CERAMIC	0. 01uF		400V	
										The comp	ponents	identified l	y mark

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety.

Replace only with part number specified.

POWER AMPLIFIER

Ref. No.	Part No.	Description			<u>I</u>	Remark	Ref. No.	Part No.	Description	<u>1</u>		Remark
C801	1-124-907-11		10uF		50V				< RELAY >			
C802	1-162-306-11 1-124-907-11		0. 01uF 10uF		16V 50V		RY1	1-515-738-11	RELAY POW	/F.R		
C803 C804	1-124-907-11		0.01uF		16V		KII	1 515 156 11	RDDMI, 10	IDIL		
							******	******	******	*****	*****	******
C805 C806	1-124-463-00 1-124-360-00		0. 1uF 1000uF		50V 16V		*	A-4356-905-A	POWER AMPI	IFIER BOAR	D. COME	PLETE
C600	1-124-300-00	ELEC1	100001), D359)		*	N 4000 000 N		******		
C806	1-124-557-11	ELECT	1000uF	20%	25V					(D	309:AEF	P, EE, CIS)
C807	1-136-165-00	ETIM	0. 1uF	5%	(A37) 50V		*	A-4356-986-A	POWER AMPI	IFIER BOAR	D. COME	PLETE
C811	1-124-910-11		47uF		50V			1000 000		*****		
C812	1-124-907-11		10uF		50V						(I	0359:AEP)
C813	1-124-122-11	ELECT	100uF	20%	50 V		*	A-4360-002-A	POWER AMPI	IFIER BOAR	D. COME	PLETE (A37)
		< CONNECTOR	? >				•	1000 002				*****
* CN1	1-564-321-00	PIN, CONNEC	CTOR 2P				*	A-4360-132-A	POWER AMPI	LIFIER BOAR	D, COMI	PLETE
	1-568-934-11								******	******		**** 309:G, IT)
* CN803	1-568-951-11	PIN, CONNEC	JIOR ZP								(D)	509:d, II)
		< DIODE >					*	A-4360-506-A		LIFIER BOAR ******	•	
D801	8-719-987-63	DIODE 1N4	4148M									(D359:IT)
D802	8-719-200-82								DOWED AND	TRIPD DOAD	D COM	DI PER
D803 D804	8-719-200-82 8-719-200-82						*	A-4360-992-A		LIFIEK BUAK *******	•	
D804	8-719-200-82											(D359:UK)
2000	0 510 005 00	D. 100 111	43.400						/ CADACIT	^D \		
D806 D811	8-719-987-63 8-719-014-66		4148M P-5.6B						< CAPACITO	JK >		
D812	8-719-002-60	DIODE UZI	L-33L				C701	1-124-927-11		4. 7uF	20%	100V
D813	8-719-200-82		ES2				C702	1-110-337-51 1-110-339-11		150PF 220PF	5% 5%	50V 50V
D821	8-719-987-63	DIODE IN	4148M				C703 C704	1-124-910-11		47uF	20%	50V
		< IC >					C705	1-124-910-11	ELECT	47uF	20%	50V
10001	8-759-820-13	TC 179MD	ne				C706	1-124-916-11	FI FCT	22uF	20%	63V
10001	0-100-040-10	IC LIONIN	00				C709	1-124-122-11		100uF	20%	50V
		< TRANSISTO	OR >				C710	1-136-165-00		0. 1uF	5%	50V
Q811	8-729-141-83	TRANSISTOR	2SB1094	_1 K			C711 C712	1-136-163-00 1-136-163-00		0. 068uF 0. 068uF	5% 5%	50V 50V
Q821	8-729-119-78			-HFE (D3	309)		0112			o. oodar	070	501
Q821	8-729-620-05		2SC2603	-EF (A37	7/D359)		C713	1-164-159-11		0. luF	0.00/	50V
Q822 Q822	8-729-119-78 8-729-620-05			-HFE (D3 -EF (A37			C714 C745	1-124-910-11 1-164-081-11		47uF 470PF	20% 10%	50V 50V
4077	0 123 020 03	TIMIOTOTOR	2502000	DI (NOT	1, 0000)		0110	1 101 001 11	OBIMINIO			D359:IT)
		< RESISTOR	>				C746	1-162-290-31	CERAMIC	470PF	10%	50V
R801	1-249-417-11	CARRON	1K 5%	1/4W	V		C751	1-124-927-11	ELECT	4. 7uF	20%	D359:IT) 100V
R802	1-249-429-11		10K 5%				0,01	1 121 021 11	2201			
<u></u> \$\text{R803}	1-212-857-00		10 5%				C752	1-110-337-51		150PF	5%	50V
R811 R812	1-249-425-11 1-249-421-11		4. 7K 5% 2. 2K 5%				C753 C754	1-110-339-11 1-124-910-11		220PF 47uF	5% 20%	50V 50V
11012	1 040 401 11	. Omnout	2. 2K 3/0	1/-11	"		C755	1-124-910-11		47uF	20%	50V
<u></u> R813	1-212-934-00		1 5%				C759	1-124-122-11	ELECT	100uF	20%	50V
R821 R822	1-249-433-11 1-249-433-11		22K 5% 22K 5%				C760	1-136-165-00	FILM	0. 1uF	5%	50V
11022	1 570 100 11			*/ *!!	•		C761	1-136-163-00	FILM	0.068uF	5%	50V
							C762	1-136-163-00	FILM	0.068uF	5%	50V
									-			

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Replace only with part number specified.

POWER AMPLIFIER

Ref. No.	Part No.	Description				Remar	Ref. N	lo.	Part No.	Description				Remark
		< CONNECTOR	>				R72	21	1-247-881-00	CARBON	120K	5%	1/4W	
⊕ CN241	1-564-518-11	DI LIC COMME	CTAD 1	ח			R72		1-249-437-11		47K	5%	1/4W	
4 CN241	1-30,4-310-11	TLUG, CONNE	CIUK 3	r			R72	23	1-249-439-11	CARBON	68K	5%	1/4W	
		< DIODE >					R72		1-249-417-11		1K	5%	1/4W	
D701	8-719-987-63	DIODE 1N4	148M				R72		1-249-433-11 1-249-433-11		22K 22K	5% 5%	1/4W 1/4W	
D751	8-719-987-63		148M				R72		1-249-426-11		5. 6K		1/4W	
		/ TC >					<u>_</u> 1R73	39	1-249-383-81	CARBON	1.5	5%	1/4W	F
		< IC >					R75	51	1-249-417-11	CARBON	1K	5%	1/4W	
	8-749-920-22						R75	52	1-249-438-11	CARBON	56K	5%	1/4W	
IC701	8-749-920-09	IC STK-41	52MK2K	(D30	9/D359)		R75		1-249-414-11		560	5% 5%	1/4W	
		< COIL >					R75		1-249-438-11 1-249-425-11		56K 4.7K	5% 5%	1/4W 1/4W	
1 701	1 400 070 00	COIL AID O	ODD										(D309/	D359)
L701 L751	1-420-872-00 1-420-872-00						R75	55	1-249-427-11	CARRON	6. 8K	5%	1/4W	(A37)
							R75		1-249-425-11		4. 7K		1/4W	(1101)
		< TRANSISTO	R >				D75	- 6	1 240 427 11	CADDON	C 017	ro/	(D309/	
Q701	8-729-140-84	TRANSISTOR	2SC1	841-P	AFAEA		R75		1-249-427-11 1-249-425-11		6.8K 4.7K		1/4W 1/4W	(A37)
Q702	8-729-900-80		DTC1		/	- \							(D309/	,
Q703 Q703	8-729-119-78 8-729-620-05				FE (D309 F (A37/I		R75	57	1-249-427-11	CARBON	6.8K	5%	1/4W	(A37)
Q751	8-729-140-84				AFAEA	5000)	R75	8	1-249-425-11	CARBON	4.7K	5%	1/4W	
		< RESISTOR					D75	- 0	1 040 407 11	CADDON	c ov	ΕW	(D309/	
		\ NESISION .					R75		1-249-427-11 1-249-421-11		6. 8K 2. 2K		1/4W 1/4W	(A31)
R701	1-249-417-11		1K	5%	1/4W		R76		1-249-421-11	CARBON	2. 2K	5%	1/4W	
R702 R703	1-249-438-11 1-249-414-11		56K 560	5% 5%	1/4W 1/4W		<u>_</u> AR76	51	1-212-881-11	FUSIBLE	100	5%	1/4W	F
R704	1-249-438-11	CARBON	56K	5%	1/4W			32	1-217-151-00	METAL PLATE	0. 22		2W	
R705	1-249-425-11	CARBON	4.7K	5%	1/4W	2050)	R76		1-249-397-11		22	5%	1/4W	
					(D309/I)359)	R76		1-249-397-11 1-249-417-11		22 1K	5% 5%	1/4W 1/4W	
R705	1-249-427-11	CARBON	6.8K	5%	1/4W ((A37)	R76		1-249-431-11		15K	5%	1/4W	
R706	1-249-425-11	CARBON	4.7K	5%	1/4₩	2050)			1 0/0 //1 11					
R706	1-249-427-11	CARBON	6.8K	5%	(D309/I 1/4W (R76		1-249-441-11 1-249-397-11		100K 22	5% 5%	1/4W 1/4W	
R707	1-249-425-11		4. 7K		1/4W	(1.01)	R76		1-249-397-11		22	5%	1/4W	
P707	1-249-427-11	CADDON	6.8K	E0/	(D309/I									
R708	1-249-427-11		4. 7K		1/4W (1/4W	(A31)	****	***	******	*****	*****	*****	*****	*****
D#00	1 040 405 11	OLDBON			(D309/I									
R708 R709	1-249-427-11 1-249-421-11		6. 8K 2. 2K	5% 5%	1/4W (1/4W	(A37)								
R710	1-249-421-11		2. 2K	5%	1/4W									
<u></u> 1.0 R711	1-212-881-11		100	5%	1/4W	F								
<u>↑</u> R712	1-217-151-00			F0/	2W									
R713	1-249-397-11	CARBUN	22	5%	1/4W									
R714	1-249-397-11		22	5%	1/4W									
R715 R716	1-249-417-11 1-249-431-11		1K 15K	5% 5%	1/4W									
R717	1-249-431-11			5% 5%	1/4W 1/4W									
R718	1-249-397-11		22	5%	1/4W									
R719	1-249-397-11	CARBON	22	5%	1/4W									
R720	1-249-429-11		10K	5%	1/4W									

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ST MAIN

Ref. No.	Part No.	Description	!		Remark	Ref. No.	Part No.	Description			Remark
*	A-4356-901-A	ST MAIN BOA				C259	1-124-902-00	ELECT	0. 47uF	20%	50 V
*	A-4356-982-A	ST MAIN BOA	ARD, COMPL	ETE (D3	59:AEP)	C260 C261	1-136-153-00 1-136-168-00	FILM	0. 01uF 0. 18uF	5% 5%	50V 50V 50V
*	A-4356-989-A	**********				C262 C263 C264	1-130-478-00 1-136-163-00 1-130-474-00	FILM	0. 0039uF 0. 068uF 0. 0018uF	5% 5% 5%	50V 50V
Ψ	A 4330 303 A	*******			•	C265	1-136-159-00		0. 033uF	5%	50V
*	A-4356-998-A	ST MAIN BOA				C266 C267	1-130-469-00 1-136-154-00	FILM	680PF 0. 012uF	5% 5%	50V 50V
*	A-4360-123-A	ST MAIN BOA		-		C268 C269	1-110-340-11 1-130-479-00		270PF 0. 0047uF	5% 5%	50V 50V
						C270	1-124-916-11		22uF	20%	63V
*	A-4360-503-A			-	•	C301	1-161-379-00	CERAMIC	0.01uF	20%	25V
		******	******	*****	*****	Cana	1 104 477 11	DI DOT	(D309) 47uF	:G, IT/D3 20%	359:11) 25V
ı.	A-4360-814-A	CT MAIN BOA	AND COMDI	בעב (עז	00.EE)	C302 C303	1-124-477-11 1-161-379-00		0.01uF	20%	25V
*	A-450U-614-A	31 MAIN DOA		-		C305	1-161-379-00		0. 01uF	20%	25V
	000 017 .					0000	1 101 070 00	ODMINITO		:G, IT/D	
*	A-4360-817-A	\$1 MAIN BU!		-	•	C306	1-161-379-00	CERAMIC	0. 01uF (D309	20% :G, IT/D3	25V 359:IT)
		< CAPACITOR	? >			C307	1-161-379-00	CERAMIC	0. 01uF	20%	25V
						C308	1-161-379-00		0. 01uF	20%	25V
C202	1-110-339-11		220PF	5%	50V	C309	1-161-379-00		0. 01uF	20%	25V
C203	1-130-471-00		0. 001uF	5%	50V	C310	1-124-477-11	ELECT	47uF	20%	25V
C204	1-124-907-11		10uF	20%	50V	0011	1 101 050 00	OPPANIC	0.010	0.00/	OFW
C205	1-124-907-11		10uF	20%	50V	C311	1-161-379-00		0. 01uF 0. 047uF	20%	25V 50V
C206	1-136-163-00	FILM	0.068uF	5%	50V	C312 C313	1-101-006-00 1-123-382-00		3. 3uF	20%	100V
C207	1-124-903-11	EI ECT	1uF	20%	50V	C313	1-123-382-00		o. our 0. 01uF	20%	25V
C207 C208	1-124-903-11		0. 027uF	20% 5%	50V 50V	C314	1-161-329-00		0. 0068uF	30%	16V
C208	1-124-902-00		0. 027th 0. 47uF	20%	50V	C313	1 101 323 00	CLIMITO	0. 0000ur	00/0	101
C210	1-136-153-00		0. 47th 0. 01uF	5%	50V	C316	1-162-282-31	CERAMIC	100PF	10%	50V
C211	1-136-168-00		0. 18uF	5%	50V	C317	1-162-292-31		680PF	10%	50V
OBII	1 100 100 00	11201	0.1001	070	001	"		-		:G, IT/D	
C212	1-130-478-00	MYLAR	0.0039uF	5%	50V	C318	1-124-903-11	ELECT	luF	20%	50V
C213	1-136-163-00	FILM	0.068uF	5%	50V	C320	1-124-903-11	ELECT	luF	20%	50V
C214	1-130-474-00	MYLAR	0.0018uF	5%	50V	C321	1-124-902-00	ELECT	0. 47uF	20%	50 V
C215	1-136-159-00	FILM	0. 033uF	5%	50V						
C216	1-130-469-00	MYLAR	680PF	5%	50V	C322	1-124-463-00		0. 1uF	20%	50V
0017	1 100 157 00	DILM	0.010.15	Ε0/	LOA	C323	1-161-329-00 1-161-329-00		0. 0068uF 0. 0068uF	20% 20%	16V 16V
C217	1-136-154-00		0. 012uF	5%	50V	C324	1-161-329-00		0.0068ur 47uF	20% 20%	25V
C218	1-110-340-11		270PF 0. 0047uF	5% 5%	50V 50V	C325 C326	1-124-477-11		10uF	20%	50V
C219 C220	1-130-479-00 1-124-916-11		22uF	20%	63V	C320	1-124-501-11	ELECT	Tour	20%	301
C221	1-164-159-11		0. 1uF	2070	50V	C327	1-161-379-00	CERAMIC	0.01uF	20%	25V
0201	1 101 100 11	CLIMITO	V. 141			C328	1-124-463-00		0. 1uF	20%	50V
C222	1-164-159-11	CERAMIC	0. 1uF		50V	C329	1-124-927-11		4. 7uF	20%	100V
C223	1-164-159-11		0. 1uF		50V	C330	1-161-379-00		0.01uF	20%	25V
C252	1-110-339-11		220PF	5%	50V	C331	1-126-176-11		220uF	20%	10V
C253	1-130-471-00		0.001uF	5%	50V						
C254	1-124-907-11	ELECT	10uF	20%	50V	C332	1-161-379-00		0.01uF	20%	25V
						C335	1-161-379-00		0. 01uF	20%	25V
C255	1-124-907-11		10uF	20%	50V	C336	1-161-379-00		0.01uF	20%	25V
C256	1-136-163-00		0. 068uF	5%	50V	C339	1-162-210-31		30PF	5%	50V
C257	1-124-903-11		luF	20%	50V				: AEP, EE, CI		
C258	1-136-158-00	FILM	0. 027uF	5%	50V	C341	1-123-382-00	ELECT	3. 3uF	20%	100V

ST MAIN

R	ef.No.	Part No.	Description	<u>1</u>			Remark	Re	f. No.	Part No.	Descript	cion_	Remark
	C342 C343	1-123-382-00 1-123-382-00		3. 3uF 3. 3uF	20% 20%	100V 100V				1-567-389-11 1-577-070-81		CERAMIC (D309:G, IT/D359	:IT)
	C344	1-123-382-00		3. 3uF	20%	100V			CI 000	1 011 010 01	•	D309: AEP, EE, CIS/D359: AEP	UK)
	C345	1-161-375-00		0. 0022uF	20%	50V		'	CF304	1-577-075-11			•
	C346	1-161-375-00	CERAMIC	0. 0022uF	20%	50V					< CONNE	CTOR >	
	C351	1-161-494-00		0. 022uF : AEP, EE, CI	S/D359:	25V AEP. UK`)	*	CN201	1-568-826-11	SOCKET.	CONNECTOR 7P	
	C352	1-102-120-00	CERAMIC	0. 0018uF : AEP, EE, CI	10%	50V		* 1	CN301	1-568-832-11	SOCKET,	CONNECTOR 13P (D309:CIS CONNECTOR 9P) ,
	C353	1-161-374-11	CERAMIC	0. 0015uF : AEP, EE, CI	20%	50V		1	CNJ131	1-695-095-11	SOCKET,	CONNECTOR 13P CONNECTOR 5P	
	C354	1-161-494-00	CERAMIC	0. 022uF : AEP, EE, CI		25V			0110101	1 100 110 11		SITION CIRCUIT BLOCK >	
	C361	1-164-098-11		0. 047uF	J/ D000 •	12V	,	١.	CD201	1_220_05211		TION CIRCUIT BLOCK	
	C362	1-161-494-00	CERAMIC	0. 022uF		25V						TION CIRCUIT BLOCK	
	C363	1-164-159-11		0. 1uF		50V							
	C364	1-161-494-00		: AEP, EE, CI: 0. 022uF	S/D359:	AEP, UK) 25V)				< DIODE	; >	
	C371	1-162-196-31		AEP, EE, CIS	S/D359:	AEP, UK) 50V)]	D351	8-719-987-63		1N4148M 309:AEP, EE, CIS/D359:AEP,	IK)
			(D309:	: AEP, EE, CI)]	D391	8-719-987-63		1N4148M (D309:CIS)	on)
	C371	1-162-198-31	CERAMIC	8. 2PF (A37/D309	10% ·G IT/D	50V 250.IT	١]	D392	8-719-987-63	DIODE	1N4148M (D309:CIS)	
					· u, 11/D	000.11,	,				< FRONT	END >	
	C373	1-162-288-31		330PF	10%	50V	`	١,	PP901	1 400 007 01	DDOM D	ND (DN) (DOOD O IT (DOCO	T.M.)
	C501	1-102-961-00		AEP, EE, CIS 27PF	5/D359 : . 5%	AEP, UK) 50V)					ND (FM) (D309:G, IT/D359:	
		1-102-961-00		27PF	5%	50V 50V			FE301	1-405-000-11	FRONT E	ND (FM) (2 GANG) (D359:U ND (FM 3GANG) (D309:EE,C	() TO)
	C502	1-124-477-11		47uF	20%	25V			EE301	1-405-390-11	FRONT E	ND (FM 3GANG) (D3U9:EE, C ND (FM) (2 GANG)	15)
		1-161-379-00		0.01uF	20%	25V 25V		1	resu1	1-095-090-21	FRUNI E		ED)
	C505	1-161-379-00]	FE351	1-236-463-11		(A37/D309:AEP/D359:AE LATED COMPONENT	,
		1-161-379-00		0. 01uF 0. 01uF	20% 20%	25V 25V					(D	309:AEP, EE, CIS/D359:AEP,	JK)
		1-161-379-00		0. 01ur 0. 01uF	20%			Ι,	PPACA	1 000 000 11	DNOADOU	LATER COMPONENT	
	C521	1-101-375-00		2. 2uF	20%	25V 100V		۱ '	re352	1-239-260-11	ENCAPSU.	LATED COMPONENT	T. (7)
		1-124-323-11		2. Zur 0. 1uF	20%	50V		١,	ppero	1 000 001 10	PNCADOU	(A37/D309:G, IT/D359	:11)
								,	FE352	1-239-261-12		LATED COMPONENT 309:AEP,EE,CIS/D359:AEP,	JK)
		1-161-379-00		0. 01uF	20%	25V							
		1-161-379-00		0. 01uF	20%	25V					< IC >		
	C525	1-124-477-11		47uF (A37/D309:	20% AEP. G. I'	25V T/D359))		IC201	8-759-633-78	IC M5	289P	
	C525	1-126-101-11		100uF	20%	16V				8-759-804-49		7522 (A37/D359)	
					(D309:	EE, CIS))	:	IC202	8-759-822-26	IC LC	7522K (D309)	
	C531	1-136-173-00		0. 47uF	5%	50V	i		IC251	8-759-633-78	IC M5	289P	
			(D309:	AEP, EE, CIS	S/D359:	AEP, UK))		IC301	8-759-821-45	IC LA	1851N	
	C532	1-161-494-00		0. 022uF AEP, EE, CIS	S/D250.	25V			IC501	8-759-820-91	IC LC	7218	
	C533	1-124-463-00		0. luF	20%	50V	'				< IFT >		
			(D309:	AEP, EE, CIS	S/D359:	AEP, UK))		* DW0.0.1	1 404 710 11	mp ono		
			< FILTER >						1FT301	1-404-713-11		·	
	CF301	1-567-389-11	FILTER. CER	RAMIC (Dans	9:G. IT/	D359 · 11	(1				< COIL	>	
		1-577-070-81		•	, 11/1		'	I	L301	1-410-686-11	INDUCTO	R 1mH	
	CESOS	1 567 000 17		AMP, EE, C							****	(A37/D309:G, IT/D359:	T)
	CF3UZ	1-567-389-11	FILIER, CEN	CAMIC (D309	∍: G, IT/l	บ359: [1	I) 	I	L301	1-407-500-00		R 4.7mH 309:AEP, EE, CIS/D359:AEP, U	JK)

ST MAIN

Ref. No.	Part No.	Description	Rema	rk Ref. No.	Part No.	Description			R	lemark
L351	1-410-525-11	INDUCTOR 220uH		R253	1-249-427-11		6.8K 5		/4W	
		(D309: AEP, EE,	CIS/D359:AEP, UK)	R301	1-249-401-11				/ 4₩	
				R302	1-249-405-11	CARBON			/4₩ /D050_17\	
		< FILTER >					(D30)9:G, II,	/D359:IT)	
LPF301	1-235-164-00	FILTER, LOW PASS		R302	1-249-407-11	CARBON			/4W	
LPF302	1-235-164-00	FILTER, LOW PASS							D359:AEP)	
				R302	1-249-413-11	CARBON			/4₩ /D2E0.111/\	
		< TRANSISTOR >		R303	1-249-411-11	CARRON	330		/D359:UK) /4W	
Q301	8-729-230-99	TRANSISTOR 25026	669-OY	K505	1-249-411-11	CARDON			/D359:IT)	
Ø301	0 123 200 33		309:G, IT/D359:IT)	R304	1-249-432-11	CARBON	18K 5		/4W	
Q302	8-729-230-99	•	669-OY						/D359:IT)	
•			309:G, IT/D359:IT)	R305	1-249-411-11	CARBON			/4W	
Q303	8-729-230-XX		669-OY				(D30	09:G, IT	/D359:IT)	
Q304	8-729-230-XX		669-OY	Danc	1 040 424 11	CARDON	27K 5	E0/ 1	/4W	
Q305	8-729-900-80	TRANSISTOR DTC1	14ES	R306	1-249-434-11	CARBUN			/4 " /D359:IT)	
Q306	8-729-900-61	TRANSISTOR DTA1	ARC	R307	1-249-414-11	CARBON	•		/4W	
Q300 Q307	8-729-900-80			1.001	1 240 414 11	Childon			/D359:IT)	
Q308	8-729-119-78		785-HFE (D309)	R308	1-249-411-11	CARBON			/4W	
Q308	8-729-620-05		603-EF (A37/D359)	R309	1-249-432-11	CARBON	18K 5		/4W	
Q309	8-729-119-78	TRANSISTOR 2SC2	785-HFE (D309)	R310	1-249-411-11	CARBON	330	5% 1	/4W	
			((CARRON	0717	F0/ 1	/ 4107	
Q309	8-729-620-05		603-EF (A37/D359)	R311 R312	1-249-434-11 1-249-414-11				/4W /4W	
Q351	8-729-900-80		CIS/D359:AEP,UK)	K312	1-249-414-11	(A37/D309				
Q352	8-729-119-78		785-HFE	R312	1-249-416-11				/4W	
Q002	0 123 113 10		(D309: AEP, EE, CIS)	"""	2 2.0 .10 11	0.2.20.			/D359:IT)	
Q352	8-729-620-05		603-EF	R313	1-249-405-11	CARBON			/4W	
			(D359:AEP, UK)	<u>_</u> R315	1-249-404-00	CARBON	82	5% 1	/4W	
Q353	8-729-119-76		175-HFE	7010	1 040 400 11	CARRON	107	F0/ 1	/ A W	
		(D309: AEP, EE,	CIS/D359: AEP, UK)	R316 R317	1-249-429-11 1-249-417-11				/4W /4W	
Q354	8-729-900-80	TRANSISTOR DTC1	LARS	R318	1-249-435-11				/4W	
Ø354	6-123-300-60		CIS/D359:AEP, UK)	R319	1-249-428-11		8. 2K		/4W	
Q355	8-729-900-80			R320	1-249-432-11	CARBON			/4W	
•		(D309:AEP, EE,	CIS/D359:AEP, UK)	R321	1-249-423-11	CARBON	3. 3K	5% 1	/4W	
Q356	8-729-900-80					O L D D O L	107	50 / 1	/ 4377	
0=01			CIS/D359:AEP, UK)	R322	1-249-429-11 1-249-418-11		10K 1. 2K		/4W /4W	
Q501 Q502	8-729-900-80 8-729-900-61			R323	1-249-416-11	(A37/D309			-	,
Q302	6-129-900-01	IMMOISION DIAI	1465	R323	1-249-423-11		3. 3K			
Q521	8-729-202-67	TRANSISTOR 2SK2	46-GR3						/D359:IT))
Q522	8-729-201-84		112-B	R324	1-249-429-11				/4W	
Q531	8-729-202-67		46-GR3	R325	1-249-429-11	CARBON	10K	5% 1	./4W _.	
			CIS/D359:AEP, UK)	D000	1 040 400 11	CADDON	990	Γ 0/ 1	/ A W	
Q532	8-729-201-84		112-B CIS/D359:AEP,UK)	R326 R327	1-249-409-11 1-249-437-11				./4W ./4W	
		(Doug: Aef, ee,	(13/D333: NEF, UN)	R328	1-249-437-11				./4W	
		< RESISTOR >		R329	1-249-437-11				/4W	
							(D30	9:G, IT/	D359:IT)	
R201	1-249-427-11			R330	1-249-435-11	CARBON			./4W	
R202	1-249-441-11		5% 1/4W				(D30	9:G, IT/	D359:IT)	
R203	1-249-427-11		5% 1/4W	Door	1 047 000 11	CADDON	680K	EØ 1	./4W	
R211 R212	1-249-417-11 1-249-417-11		5% 1/4W 5% 1/4W	R331 R332	1-247-899-11 1-247-899-11		680K		./4W	
11212	1-443-411-11	CUITOU IV	0/0 1/ 7!!	R333	1-249-421-11		2. 2K		/4W	
R251	1-249-427-11	CARBON 6.8K	5% 1/4W	R334	1-249-421-11		2. 2K		/4W	
R252	1-249-441-11			R335	1-249-420-11	CARBON	1.8K		1/4W	
						-				

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety.

Replace only with part number specified.

ST MAIN SW

Ref. No.	Part No.	Description		Remark	Ref. No.	Part No.	Description	Remark
R336 R337	1-249-420-11 1-249-426-11				R531	1-249-423-11		, , , , , , , , , , , , , , , , , , ,
R338 R351	1-249-426-11 1-249-426-11 1-249-433-11	CARBON 5.6K			R532	1-249-433-11		
R352	1-249-437-11	(D309:AEP, EE, C	CIS/D359:AEP, UK) 5% 1/4W		R533	1-249-414-11		
11002	1 243 457 11		CIS/D359: AEP, UK)	R534	1-249-417-11		•
R353	1-247-903-00		5% 1/4W CIS/D359:AEP, UK	١	R535	1-249-410-11	(D309:AEP, EE, CIS/D359:AE CARBON 270 5% 1/4W (D309:AEP, EE, CIS/D359:AE	
R354	1-249-441-11	CARBON 100K			R536	1-249-421-11		F, UK)
R355	1-249-433-11	CARBON 22K	5% 1/4W CIS/D359:AEP, UK)		R537	1-249-425-11	(D309:AEP, EE, CIS/D359:AE	CP, UK)
R356	1-249-421-11	CARBON 2.2K			R538	1-249-405-11	(D309:AEP, EE, CIS/D359:AE	CP, UK)
R361	1-249-437-11		5% 1/4W	,	1,550	1 243 403 11	(D309: AEP, EE, CIS/D359: AE	CP, UK)
R362 R363	1-249-437-11 1-249-425-11		5% 1/4W 5% 1/4W				< VARIABLE RESISTOR >	
R364	1-249-425-11	(D309:AEP, EE,	CIS/D359: AEP, UK))			RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K	
R365	1-249-429-11	(D309: AEP, EE,	CIS/D359:AEP, UK) 5% 1/4W)		1 200 001 11	< TRASFORMER >	
R366	1-249-413-11	(D309:AEP, EE,	CIS/D359:AEP, UK) 5% 1/4W)	T301	1-404-807-11	TRANSFORMER, DISCRIMINATOR	
		(D309:AEP, EE,	CIS/D359:AEP, UK))			ENCAPSULATED COMPONENT (D309:G, IT/D35	9:IT)
R367	1-249-434-11		5% 1/4W CIS/D359:AEP, UK))			< TERMINAL >	0.11)
R368	1-249-433-11		5% 1/4W CIS/D359:AEP, UK))	TM301	1-537-264-11	TERMINAL BOARD (ANTENNA)	
R370	1-249-423-11		5% 1/4W 09:G, IT/D359:IT)	·)			(A37/D35 TERMINAL BOARD, ANTENNA (PAL)	
R501 R502	1-249-417-11 1-249-417-11		5% 1/4W 5% 1/4W				(ANTENNA) (D309/D359:AE	P, IT)
R503	1-249-417-11	CARBON 1K	5% 1/4W				< TEST PIN >	
R504	1-249-417-11	CARBON 1K	5% 1/4W		* TP1	1-560-060-00	PIN, CONNECTOR 2P	
R505 R506	1-249-429-11 1-249-417-11		5% 1/4W 5% 1/4W				/ WIDDATOD >	
<u>1</u> R510	1-249-401-11		5% 1/4W		VTTO1	1 577 100 01	< VIBRATOR >	
R511	1-249-429-11	CARBON 10K	5% 1/4W		X1501	1-577-126-21	VIBRATOR, CRYSTAL (7.2MHz)	
R512	1-249-425-11		5% 1/4W		******	******	**********	*****
R513	1-249-417-11		5% 1/4W					
R514 R515	1-249-429-11 1-249-417-11		5% 1/4W 5% 1/4W		*	1-646-974-21	SW BOARD (A37) *********	
R521 R522	1-249-423-11		5% 1/4W				< SWITCH >	
R522	1-249-425-11 1-249-414-11		5% 1/4W 5% 1/4W		A CW1	1 570 000 11	CWITCH VOLUMED OF POTION	
R524	1-249-417-11		5% 1/4W 5% 1/4W		<u>∧</u> SW1	1-014-400-11	SWITCH, VOLTAGE SELECTION	CTOB)
R525	1-249-410-11		5% 1/4W				(VOLTAGE SELE	CIUR)
			,		******	*****	*********	*****
R526	1-249-421-11							
R527	1-249-425-11		5% 1/4W					
R528	1-249-425-11							
R529	1-249-405-11		5% 1/4W					
R530	1-249-405-11	CARBON 100	5% 1/4W		I			

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.

Replace only with part number specified.





Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
*	1-646-978-11	VOL BOARD (D309) *******				ES & PACKING MATERIALS *****************	
*	1-646-978-21	VOL BOARD (A37/D359) ********			1-466-982-2	1 COMMANDER, STANDARD (RM-S309) 1 COMMANDER, STANDARD (RM-S309) 1 ANTENNA (D359:AEP, IT)	, ,
		< CAPACITOR >				1 ANTENNA, LOOP (D309:AEP, IT, EE, CIS/D3	359·AFP IT)
C413	1-164-159-11	CERAMIC 0.1uF 50V			1-501-536-1	1 ANTENNA (D309: AEP, IT, EE, CIS)	, oo . A.D. , 11)
		< VARIABLE RESISTOR >			1-696-860-1	1 CORD, CONNECTION 13P (D309:AEP1, IT/D359:AE	EP1, IT)
RV242	1-223-291-11	RES, VAR, CARBON 100K/100K (VOLUM	E)	*		1 STICKER, SONY SYMBOL (10) 1 COVER, BATTERY (A37, D359)	
******	*****	************	*****		3-756-332-1	1 COVER, BATTERY (D309) 1 MANUAL, INSTRUCTION GLISH, FRENCH, SPANISH, PORTUGUESE))(D309:AEP)
		MISCELLANEOUS ***********			·	1 MANUAL, INSTRUCTION	(=====,
16 17		WIRE (FLAT TYPE) (7 CORE) WIRE, FLAT TYPE (11 CORE)			(1	GERMAN, DUTCH, SWEDISH, ITALIAN) (DS 1 MANUAL, INSTRUCTION (GERMAN, DUTCH, SWEDISH, ITALIAN	
18	1-751-025-11	WIRE (FLAT TYPE) (9 CORE) (A37, D359 WIRE (FLAT TYPE) (9 CORE) (A37, D309	9) 9. D359)			1 MANUAL, INSTRUCTION GLISH, FRENCH, SPANISH, PORTUGUESE)	, , ,
* 52		HOLDER, FUSE (A37/D359)	,,,,,,	*	4-957-500-0	1 INDIVIDUAL CARTON (D309:AEP, IT 1 INDIVIDUAL CARTON (D309:EE, CIS	r)
<u></u> 1 63	1-575-653-11 1-690-608-11	HOLDER, FUSE (D309) CORD, POWER (A37:E, PX) CORD, POWER (A37:AUS)		*		1 CUSHION (D309:AEP, IT, EE, CIS)	
<u> </u>	1-696-570-21 1-575-651-11	CORD, POWER (D359:UK) CORD, POWER		******	******	************	<********** *
<u>↑</u> F801 <u>↑</u> F802 ↑F803	1-532-078-00 1-532-078-00 1-532-299-00	FUSE (1A)			H	**************************************	
<u></u> ₹804	1-532-299-00 1-532-286-00	FUSE (5A)		#1 #2		9 SCREW +BVTP 3X8 TYPE2 N-S 4 SCREW +BVTT 4X6 (S)	
_	1-532-286-00			#3		(A37, D309: AEP, G, IT, EE 1 SCREW +BYTT 3X6 (S)	i, CIS, D359)
FL431 FL601	1-519-648-21 1-519-711-11	INDICATOR TUBE, FLUORESCENT INDICATOR TUBE, FLUORESCENT		110	7 000 071 0.	TOOLDH BITT ONG (O)	
ΛT1 Λ		TRANSFORMER, POWER (D359) TRANSFORMER, POWER (D309)					
<u>^</u> <u>^</u> T2		TRANSFORMER, POWER (A37) TRANSFORMER, POWER (D309)					
<u>^</u>	1-423-499-21	TRANSFORMER, POWER (D359) TRANSFORMER, POWER (A37)					
******	*******	*************	******				

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety.

Replace only with part number specified.

STR-A37/D309/D359

STR-A37/D309/D359

SONY. SERVICE MANUAL

AEP Model
STR-D309/D359

UK Model
STR-D359

Australian Model
E Model
PX Model
STR-A37

SUPPLEMENT-1

File this Supplement with the Service Manual.



Subject: POLAR BOARD

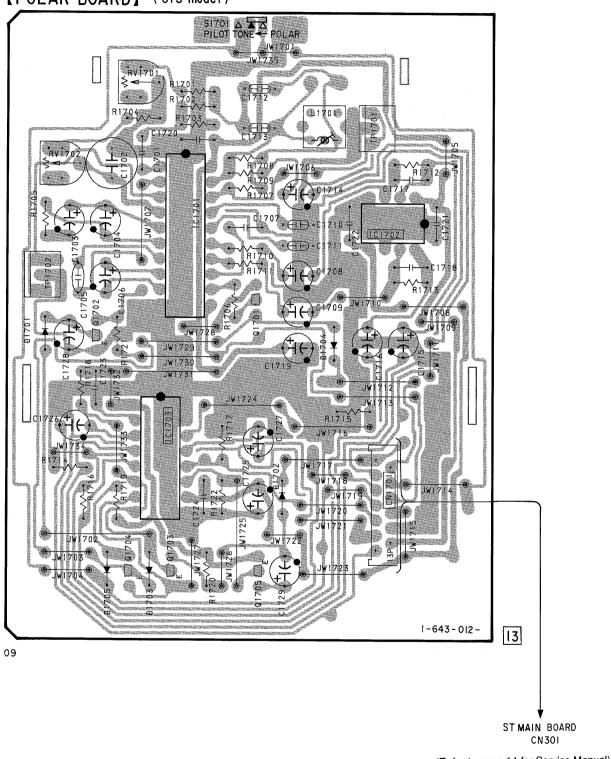
(PRINTED WIRING BOARD)

(CIS Model)

: ELECTRICAL ADJUSTMENTS

-- Correction

[POLAR BOARD] (CIS model)



(Refer to page 14 for Service Manual)

ELECTRICAL ADJUSTMENTS

SUBCARRIER ADJUSTMENT (CIS Model only)

SWITO		Function Sel Band Selector FM mode: M	or: FM		
SIGNA GENEI	AL RATOR	69 MHz, 60	dB, FM modu	ulated	
STEP	TEST STAGE	FM TUNING FREQUENCY	SIGNAL GENERA- TOR	AD- JUST- MENT	REMARKS
1	fo	69 MHz	1 kHz (10 kHz dev.)		The value in this state should be O dB (Vo).
2			31.25 kHz (10 kHz dev.)	L1701	Adjust for maximal output.
3	Ω			RV1701	Indication is +14 dB against Vo.

VCO FREQUENCY ADJUSTMENT

SIGNAL GENERATOR	1kHz , 30%, FM modulated (mono signal)		
FREQUENCY	FM TUNING FREQUENCY	AD- JUST- MENT	REMARKS
FM mono position		FM stereo position (unmodulated)	
69 MHz at 60 dB	69 MHz	RV1702	Adjust for 31.25 kHz ±50 Hz.

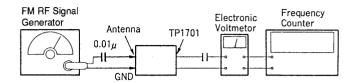


Fig. 1 SUBCARRIER

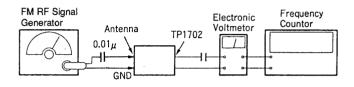
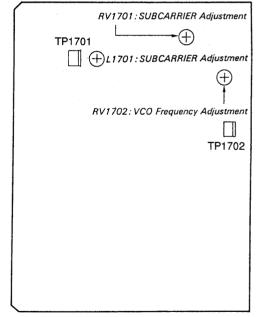
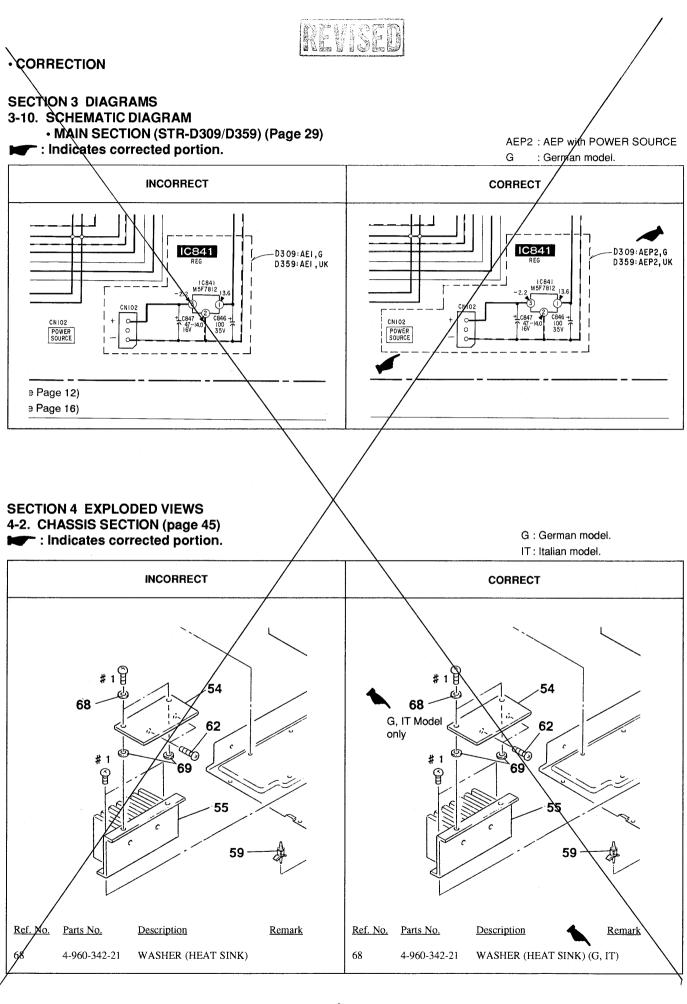


Fig. 2 VCO FREQUENCY

POLAR BOARD(Component side)





SECTION 5 ELECTRICAL PARTS LIST



-: Indicated Corrected portion

AEP1: AEP with out POWER SOURCE
AEP2: AEP with POWER SOURCE
EE: East European model
CIS: CIS model

G: IT: German model

Italian model

PAGE		INCORRECT				СОЙВЕСТ					
	Ref. No.	Part No.	Description	!	Remark	Ref. No.	Part No.	Description	1		<u>Remark</u>
47	*	A-4356-904-A A-4360-174-A				*	A-4356-904-A A-4360-174-A		COMPLETE	•	AEP2) EE, CIS)
	*	A-4356-985-A	MAIN BOARD,	COMPLETE (I	0359:AEP)	*	A-4356-985-A A-4360-499-A		COMPLETE	(D359:	AEP2)
			< CAPACITOR	\rightarrow				< CAPACITOR	? >		
	C846	1-124-122-11	ELECT		50V /D353 AEP, UK)	C846	1-124-122-11		100uF 309:AEP2,0	20% G/D359:	25V AEP2, UK)
	C847	1-124-477-11	ELECT	47uF 20		C847	1-124-477-11	ELECT	47uF	20% (D359:	25V AEP2, UK)
						C847	1-124-910-11	ELECT	47uF	20% (D309	50V : AEP2, G)
48			< CONNECTOR	· /				< CONNECTOR	₹ >		
	* CN102	1-566-210-11	PIN, CONNEC		ER SOURCE) /D359:AEP,UK)	* CN102	1-566-210-11		CTOR 3P (PO 0309:AEP2,0		
			< IC > /					< IC >			
	IC841	8-759-604-39	IC M16291		/D359:AEP,UK)	IC841	8-759-604-89		1 0309: AEP2, (G/D359:	AEP2, UK)
			< RESISTOR	>				< RESISTOR	>		
49	R733	1-249-486-11	CARBON	39K 5%	1/4W	R733	1-249-436-11	CARBON	39K 5%	-, -	W 59:AEP1)
						R733	1-249-437-11	CARBON	₹7K 5%		W 59:AEP1)
61			ES & PACKING	-				S & PACKING	,		
"/		1-696-860-11	CORD, CONNI (D309:Al		/D359:AE2, IT)		1-696-860-11		ECTION 13P 309:AEP1,I		AEP1, IT)

STR-A37/D309/D359

PS-LX52/LX52P

SERVICE MANUAL

REVISED

Photo: PS-LX52

US Model Canadian Model AEP Model E Model Australian Model PS-LX52 UK Model PS-LX52P

• PS-LX52P is the STEREO TURNTABLE SYSTEM in LBT-D109CD/LBT-A17CD/ LBT-D108CD/LBT-D159CD/LBT-D209CD/ LBT-D259CD/LBT-D309CD/LBT-D359CD.

SPECIFICATIONS

Return, reject

Turntable

Platter 30cm (12 in.) Motor DC servo motor Belt drive Drive system 331/3 rpm/45 rpm switchable Speed Wow and flutter 0.2% (WRMS) Signal-to-noise ratio Automatic System 60 dB (DIN-B)

Tonearm

Dynamically balanced Pivot-to-stylus length 203 mm (8 in.) 235 mm (91/4 in.) Overall arm length

Cartridge

Moving magnet type 20 Hz-20 kHz Type Frequency response Stylus

General

355 × 94 × 345 mm(w/h/d) Dimensions $(14 \times 3^3/_4 \times 13^5/_8 \text{ inches})$

Weight

Approx. 2.5 kg (5 lb 8 oz) Power requirement US, Canadian model: 120V AC, 60 Hz AEP, Italian, East European, CIS model: 220-230V AC, 50/60 Hz UK model: 12V DC

PX, E, Saudi Arabia, Singapore, Malaysia model: 110-120V/220-240V AC, adjustable with the voltage selector, 50/60 Hz

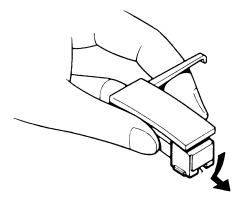
Australian model: 240V AC, 50 Hz 4W (except UK model) Power consumption

Accessory supplied Optional accessories

45-rpm adaptor (1) Replacement stylus ND-155G Stat spray XP-C10 Cleaner XP-C1, XP-C2

Design and specifications subject to change without notice.

REPLACING THE STYLUS



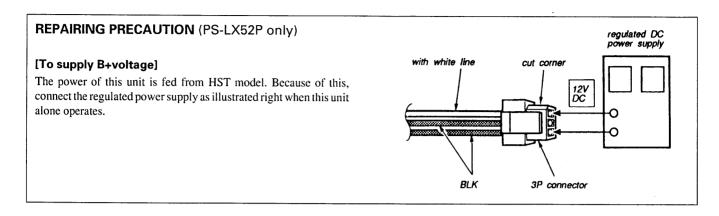
Replace the stylus after about 400 hours of use because using a worn stylus will damage records. An ND-155G replacement stylus is available at your Sony dealer. Be sure to turn the amplifier off before proceeding with re-

placement.

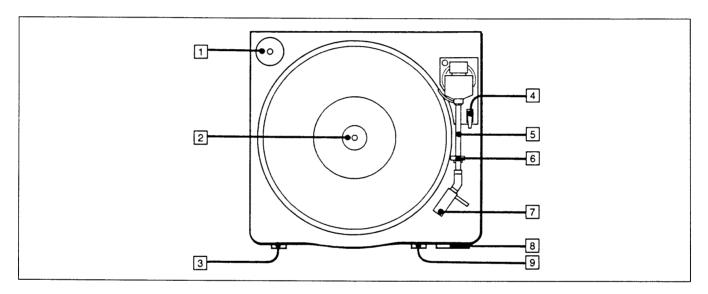
- 1. While holding the cartridge, detach the stylus assembly as illustrated
- Insert the new stylus into the cartridge.



STEREO TURNTABLE SYSTEM SONY

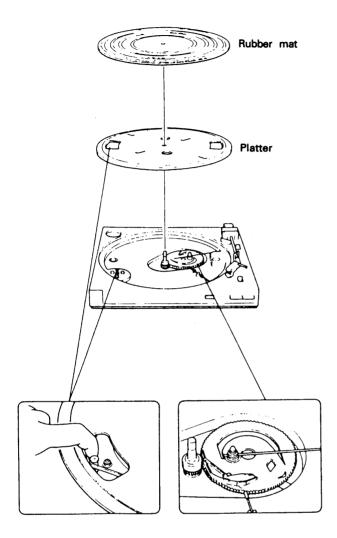


LOCATION OF CONTROLS



- 1 45-rpm adaptor
- 2 Center spindle
- 3 POWER switch (PS-LX52 only)
- 4 Cueing lever
- 5 Tonearm
- 6 Arm rest
- 7 Cartridge
- 8 REJECT button
- 9 Speed selector

TURNTABLE ASSEMBLY



Hook the belt on the motor pulley. If the belt is removed from the platter, replace it with the glossy side outward.

Speed Adjustment

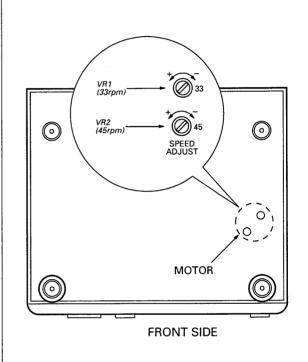
Note: Be sure to perform 45rpm adjustment before 33rpm.

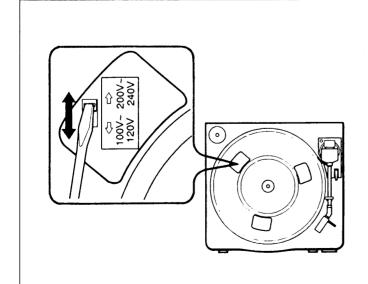
- 1. Place a stroboscope board on the turntable sheet.
- 2. Set the SPEED switch to 45.

Press the START button.

Adjust VR2 so that the striped pattern of stroboscope board is stationary.

3. Set the SPEED switch to 33. Adjust VR1 in the same way.



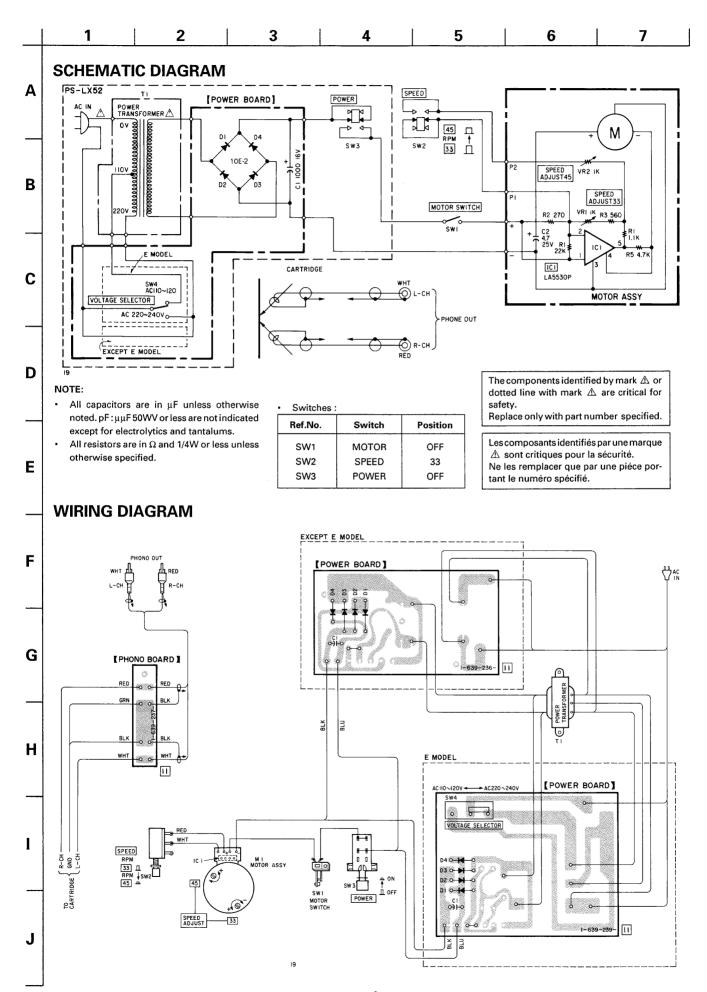


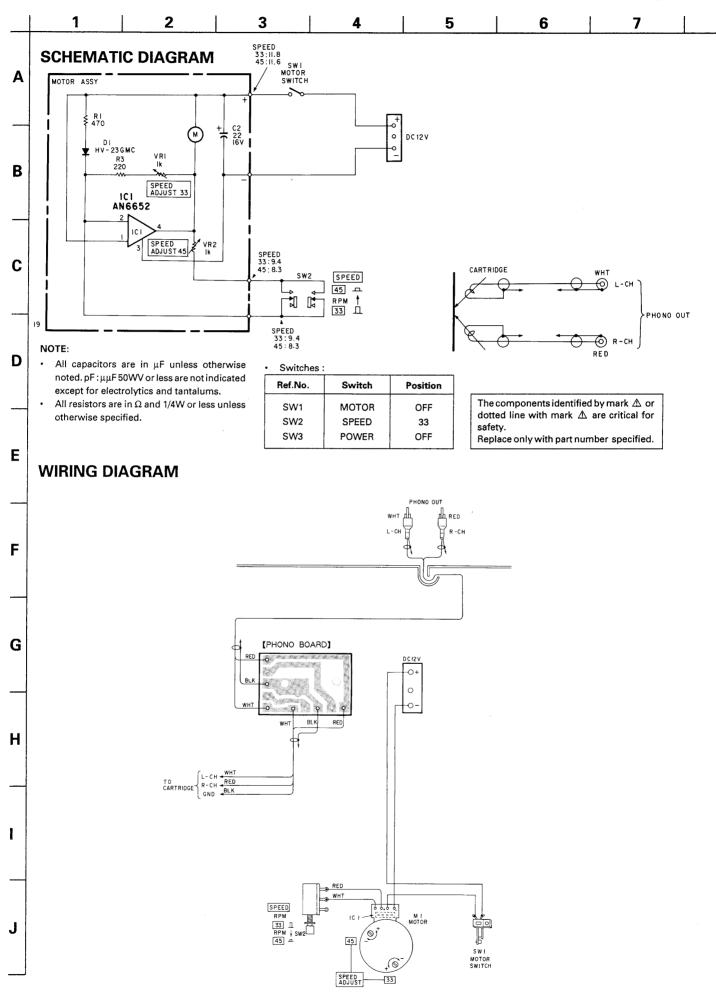
Setting the Voltage Selector

PS-LX52 (E, Saudi Arabia, PX, Singapore, Malaysia model)

For customers of the model equipped with the voltage selector

Check to confirm that the voltage selector is set to the local power line voltage. If not, set the voltage selector to the correct position before connecting the AC power cord to a wall outlet.





-5-

EXPLODED VIEW [PS-LX52]

NOTE:

- -XX, -X mean standardized parts, so they may have some differences from the original one.
- The construction parts of an assembled part are in dicated with a collation number in the remark column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Screw(# mark) list is given in the last of this parts list.

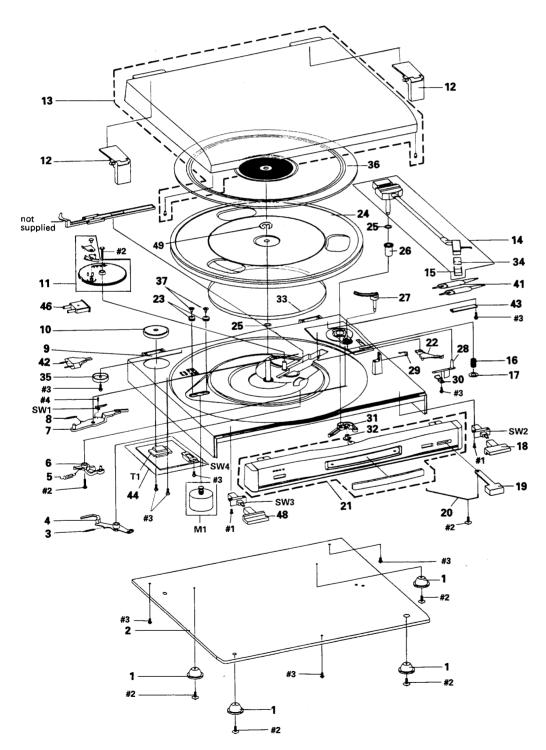
The components identified by mark \triangle or dotted line with mark \triangle are critical for safety.

Replace only with part number specified.

Les composants identifiés par une marque △ sont critiques pour la sécurité.

Ne les remplacer que par une piéce portant le numéro spécifié.

- PX, Saudi Arabia, Singapore and Malaysia models are identical to E model.
- Italian, EE, and CIS models are identical to AEP model
- AUS: Australian model
- EE: East European model



Ref. No.	Part No.	Description F	Remarks	Ref. No.	Part No.	Description	Remarks
1	4-950-472-01	FOOT		28	4-950-440-01	LEVER-CUEING	
* 2	4-958-328-01	COVER-BOTTOM		29	4-950-439-01	LOCKER-ARM	
3	4-950-453-01	SPRING-REJECT		30	4-950-441-01	BRACKET-CUEING	
4	4-950-452-01	LEVER-REJECT		31	4-950-450-01	ARM-FEED	
5	4-950-455-01	SPRING-ELEVATOR		32	4-950-451-01	CAM-ADJUST	
6	4-950-454-01	ELEVATOR		33	4-950-434-01	BELT	
7	4-950-463-01	ARM-CONTROL		34	4-944-756-01	CARTRIDGE (AT-3600LAX)	
8	4-950-464-01	SPRING-CONTROL ARM		* 35	4-950-514-01	WASHER CODE	
* 9	4-950-431-01	CABINET-UPPER		36	A-4660-142-A	RUBBER ASSY, SHEET	
10	4-950-467-01	ADAPTOR-45RPM		37	4-950-469-01	SCREW-SETTING MOTOR	
11	A-4660-140-A	GEAR ASSY, RING		41	1-590-871-11	CORD, CONNECTION (3 CORE)	
12	4-950-432-01	HINGE		<u></u> ∆ 42	1-590-836-13	CORD, POWER (E)	
13	A-4660-138-A	COVER ASSY, DUST		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1-551-294-11	CORD, POWER (AEP)	
14	A-4660-384-A	A ARM ASSY, TONE		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1-696-382-11	CORD, POWER (US, Canadian)	
15	4-944-756-01	STYLUS (ND-155G)		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		CORD, POWER (AUS)	
16	4-950-442-01	SPRING-ELEVATION		43	•	PHONE BOARD	
17	4-950-444-01	WASHER-C/S		44		POWER BOARD (E)	
18	4-956-873-01	BUTTON-SPEED		44		POWER BOARD (EXCEPT E)	
19	4-956-872-01	BUTTON-REJECT		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		ADAPTER, AC (E)	
20	4-950-448-01	LINK-REJECT		48		BUTTON POWER	
21	A-4660-361-A	A PANEL (G) ASSY, FRONT		49	4-953-059-01		
22	4-953-060-01	L LEVER, SWITCH		M1	A-4660-141-A		
23	4-950-470-01	L CUSHION-MOTOR		SW1		SWITCH, LEAF	
24	4-950-433-01	PLATTER		SW2		SWITCH, PUSH (2 KEY) (SPEED)	
25	4-950-435-01	SPACER		∆S₩3		SWITCH, PUSH (POWER)	
26	4-950-436-01	BUSHING-TONE ARM		∆S₩4		VOLTAGE SELECTOR (E)	
27	4-950-437-01	ARM-ELEVATION		<u>∆</u> T1		TRANSFORMER, POWER	

ELECTRICAL PARTS LIST [PS-LX52]

NOTE:

1 46

SW1

SW2

∆S₩3

The components identified by mark A or dotted line with mark Δ are critical for safety.

Replace only with part number specified.

Les composants identifiés par une marque Ne les remplacer que par une piéce portant le numéro spécifié.

When indicating parts by reference number, please include the board name.

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- ME HE PE HIE

- PX, Saudi Arabia, Singapore and Malaysia models are identical to E model.
- Italian, EE, and CIS models are identical to AEP model.
- AUS: Australian model · EE: East European model

CAPACITORS

					Wr:μ	r, rr : μμr
Ref. No.	Part No.	Descri	ption			Remarks
	1-639-239-11 1-639-236-11	POWER *****	BOARD	(EXCEPT E)		
C1	1-124-360-00	ELECT		1000μ F	20%	16V
		< DIOD	E >			
D1-4	8-719-200-02	DIODE	10E-2			
******	*******	*****	*****	******	*****	*****
		MISCELI	LANEOUS	S		
		*****	*****	* *		
41		1 CORD,	CONNEC	CTION (3 C	ORE)	
∆ 42	1-590-836-1	1 CORD,	POWER	(E)		
∆ 42	1-551-294-1	1 CORD,	POWER	(AEP)		
∆42	1-696-382-1	1 CORD,	POWER	(US, Canad	ian)	
∆ 42	1-696-848-1	1 CORD,	POWER	(AUS)		
43	1-639-237-1	1 PHONE	BOARD			

1-693-159-11 ADAPTER, AC (E)

1-572-744-11 SWITCH, PUSH (POWER)

1-572-744-11 SWITCH, PUSH (2 KEY) (SPEED)

1-572-746-11 SWITCH, LEAF

Ref. No. Part No. Description Remarks 1-572-745-11 VOLTAGE SELECTOR (E) ∕\S₩4 1-450-508-11 TRANSFORMER, POWER Λ T1 ******************** ACCESSORIES & PACKING MATERIALS ******************** 4-947-532-01 SNOW BOX (L) 4-947-533-01 SNOW BOX (R) 4-956-071-01 INDIVIDUAL CARTON 3-756-211-11 MANUAL, INSTRUCTION (English, French, Spanish, Portuguese) (AEP, Canadian) 3-756-211-21 MANUAL, INSTRUCTION (English) (US) 3-756-211-41 MANUAL, INSTRUCTION (German, Dutch. Swedish, Italian) (AEP) 3-756-211-51 MANUAL, INSTRUCTION (English, French, Spanish, Chinese) (E, AUS) 3-756-211-61 MANUAL, INSTRUCTION (English, German, Polish, Russian) (EE, CIS) ************************ HARDWARE LIST #1 7-685-246-19 SCREW +KTP 3X8 TYPE2 NON-SLIT #2 7-685-903-21 SCREW +PTPWH 3X8 TYPE2

7-685-104-11 SCREW +P 2X6 TYPE2 NON-SLIT

#3

7-685-546-19 SCREW

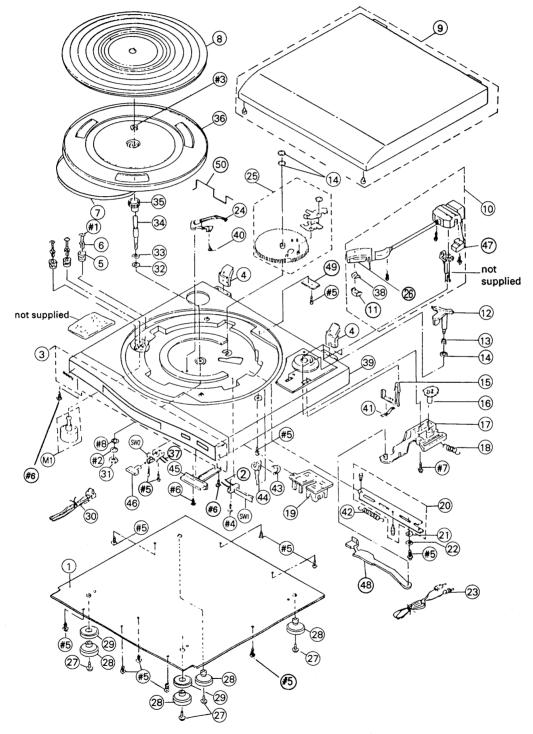
EXPLODED VIEW [PS-LX52P]

NOTE:

- -XX, -X mean standardized parts, so they may have some differences from the original one.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Screw(# mark) list is given in the last of this

The components identified by mark Δ or dotted line with mark Δ are critical for safety.

Replace only with part number specified.



Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
1	4-950-488-01	BOTTOM BOARD	ı	6	4-947-504-01	COLLAR	
2	1-696-144-11	WIRE (45) RED		7	4-947-503-01	BELT	
3	A-4660-303-A	PANEL (G) ASSY, FRONT		8	A-4674-087-A	TURN TABLE MAT ASSY	
4	4-947-476-01	HINGE		9	A-4604-946-A	DUST COVER ASSY	
5	4-947-505-01	CUSHION, MOTOR					

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
10	A-4604-940-A	ARM ASSY, TONE		30	1-557-109-21	DC CORD	
11	4-948-095-01	COVER CARTRIDGE		31	4-947-510-01	NUT	
12	4-947-466-01	TONE ARM ELEVATOR		32	3-451-162-00	WASHER (56)	
13	4-947-467-01	SPRING (6)		33	3-701-445-21	WASHER	
14	4-947-514-01	4MM CS RING		34	4-947-498-01	STELL BALL	
15	4-947-468-01	LEVER, CUEING		35	4-947-497-01	GEAR	
16	4-947-470-01	ADJUST CAM		36	4-947-494-01	TURNTABLE PLATTER	
* 17	4-947-471-01	LINK, RETURN		37	1-696-143-11	WIRE (30) (WHT)	
18	4-947-472-01	SPRING (9-1)		38	4-951-290-01	STYLUS (CN234)	
19	4-956-998-01	BUTTON BASE		39	4-947-475-01	MAIN CABINET (G)	
20	A-4660-302-A	LEVER RETURN ASSY		40	4-947-496-01	SPRING (34)	
21	3-659-350-00	WASHER		* 41	4-947-477-01	CUEING (BASE)	
22	4-890-173-00	WASHER		42	4-947-485-01	SPRING (22)	
23	1-555-116-11	PHONO CORD		43	4-947-490-01	ARM CLIP	
				44	4-947-491-01	ARM REST	
24	4-947-495-01	WIPER REJECT					
25	A-4604-916-A	GEAR ASSY, SPUR		45	4-956-997-01	KNOB REJECT	
26	1-251-028-11	CARTRIDGE (MAIN)		46	4-956-996-01	KNOB SPEED	
27	4-950-497-01	FOOT SEAT		47	4-947-464-01	COUNTER WEIGHT	
28	4-950-490-01	PLASTIC STAND		* 48	4-947-487-01	RETURN LINK	
29	4-950-489-01	FOOT RING		49	1-644-410-11	P. C BOARD	
				50	4-948-101-01	SPRING (38)	

ELECTRICAL PARTS LIST [PS-LX52P]

NOTE:

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety.

Replace only with part number specified.

When indicating parts by reference number, please include the board name.

 Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.

- -XX, -X mean standardized parts, so they may have some difference from the original one
- Items marked "*" are not stocked since they are seldom required for routine service.
 Some delay should be anticipated when ordering these items.

Ref. No.	Part No.	Description	Remarks
23	1-555-116-11	PHONO CORD	
30	1-557-109-21	DC CORD	
* 49	1-644-410-11	P. C BOARD	
M1	A-4604-945-A	MOTOR ASSY	
SW1	1-570-666-11	SWITCH (MOTOR)	
SW2		PUSH SWITCH (SPEED)	
	***************	PUSH SWITCH (SPEED) *************************** S & PACKING MATERIALS ***********************************	*******
	************ ACCESSORIE *******	**************************************	******
*****	************** ACCESSORIE ********** 4-947-532-01	**************************************	******

Description Remarks Ref. No. Part No. HARDWARE LIST #1 7-621-773-87 SCREW +B 2.6X10 #2 7-623-210-22 SW4, TYPE 2 #3 7-624-110-04 STOP RING 6.0, TYPE-E 7-685-105-19 SCREW +P 2X8 TYPE 2 NON-SLIT #4 7-685-647-79 SCREW +BVTP 3X10 TYPE 2 IT-3 #5 #6 7-685-646-79 SCREW +BVTP 3X8 TYPE 2 IT-3 #7 7-685-645-79 SCREW +BVTP 3X6 TYPE 2 IT-3 7-688-005-01 W5, SMALL #8

PS-LX52/LX52P

SONY. SERVICE MANUAL

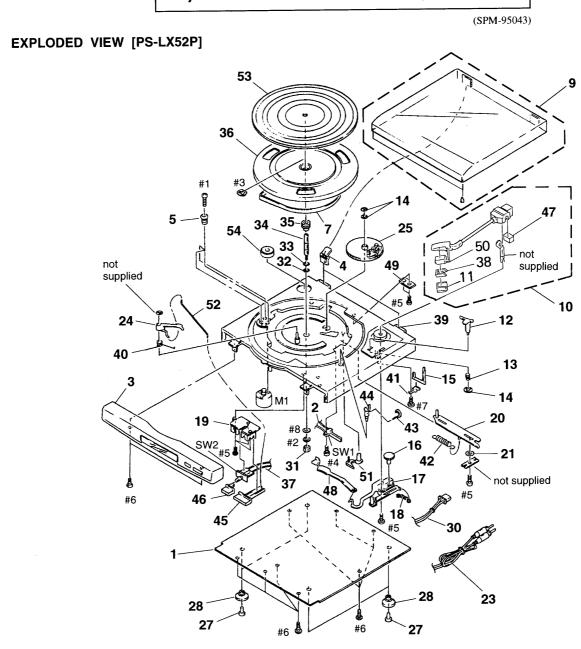
US Model Canadian Model AEP Model E Model Australian Model

CORRECTION-1

Correct your service manual as shown below.

UK Model

Subject: Correction of EXPLODED VIEW (PS-LX52P)



Note:

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 Some selay should be anticipated when ordering these items.
- The mechanical oarts with no refernce number in the exploded views are not supplied.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	4-950-488-01	BOTTOM BOARD		36	4-947-494-01	TURNTABLE PLATTER	
2	1-696-144-11	WIRE (45) (RED)		37	1-696-143-11	WIRE (30) (WHT)	
3	A-4660-303-A	FRONT PANEL ASSY		38	4-951-290-01	STYLUS (CN-234)	
4	4-947-476-01	HINGE		39	4-947-475-01	MAIN CABINET (G)	
5	4-947-505-01	CUSHION MOTOR		40	4-947-496-01	SPRING (34)	
7	4-947-503-01	BELT		41	4-947-477-01	CUEING (BASE)	
9	A-4604-946-A	DUST COVER ASSY		42	4-947-485-01	SPRING (22)	
10	A-4604-940-A	ARM ASSY, TONE		43	4-947-490-01	ARM CLIP	
11	4-948-095-01	COVER, CARTRIDGE		44	4-947-491-01	ARM REST	
12	4-947-466-01	TONE ARM ELEVATOR		45	4-956-997-01	KNOB REJECT	
13	4-947-467-01	SPRING (6)		46	4-956-996-01	KNOB SPEED	
14	4-947-514-01	4MM CS RING		47	4-947-464-01	COUNTER WEIGHT	
15	4-947-468-01	LEVER, CUEING		* 48	4-947-487-01	RETURN LINK	
16	4-947-470-01	ADJUST CAM		* 49	1-644-410-11	PC BOARD	
* 17	4-947-471-01	LINK, RETURN		50	1-251-028-11	CARTRIDGE (MAIN)	
18	4-947-472-01	SPRING (9-1)		51	4-957-000-01	PLASTIC RETURN	
19	4-956-998-01	BUTTON BASE		52	4-948-101-01	SPRING (38)	
20	A-4660-302-A	LEVER RETURN ASSY		53	A-4674-087-A	TURN TABLE MAT ASSY	
21	3-659-350-00	WASHER		54	3-701-806-00	ADAPTOR, 45	
23	1-555-116-11	CORD, PHONE		M1	A-4604-945-A	MOTOR ASSY	
24	4-947-495-01	WIPER REJECT .		SW1	1-570-666-11	SWITCH (LEAF)	
25	A-4604-916-A	GEAR ASSY, SPUR		SW2	1-571-089-11	PUSH SWITCH (SPEED)	
27	4-950-497-01	FOOT SEAT		#1	7-621-773-87	SCREW (64)	
28	4-950-490-01	PLASTIC STAND		#2	7-623-210-22	WASHER (57)	
30	1-557-109-21	CORD, DC		#3	7-624-110-04	6MM E RING	
31	4-947-510-01	NUT		#4	7-685-105-01	SCREW (59)	
32	3-451-162-00	WASHER (56)		#5	7-685-647-79	SCREW (58)	
33	3-701-445-21	WASHER		#6	7-685-646-79	SCREW (60)	
34	4-947-498-01	STELL BALL		#7	7-685-645-79		
35	4-947-497-01	GEAR		#8	7-688-005-01	WASHER (69)	